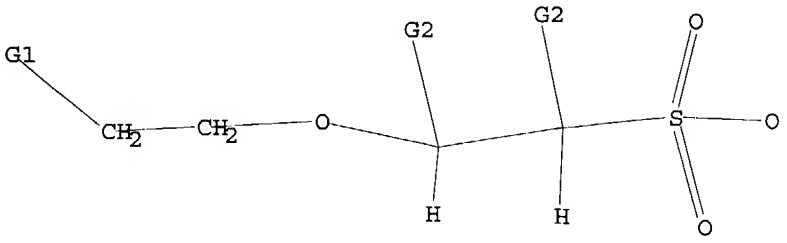
>
Uploading C:\Program Files\Stnexp\Queries\10690467.str

L5 STRUCTURE UPLOADED

=> d
L5 HAS NO ANSWERS
L5 STR



G1 C,O,Cb

G2 Me,Et,n-Pr,i-Pr,H

Structure attributes must be viewed using STN Express query preparation.

=> s l5
SAMPLE SEARCH INITIATED 08:17:17 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1609 TO ITERATE

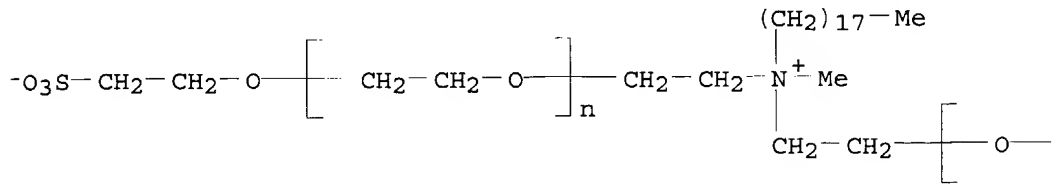
62.2% PROCESSED 1000 ITERATIONS 14 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

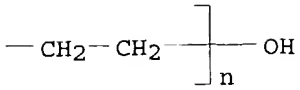
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 29774 TO 34586
PROJECTED ANSWERS: 166 TO 734

L6 14 SEA SSS SAM L5

=> d scan

L6 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α,α'-[(methyloctadecyliminio)di-2,1-ethanediyl]bis[ω-hydroxy-ω'-(2-sulfoethoxy)-, inner salt (9CI)
MF (C2 H4 O)n (C2 H4 O)n C25 H53 N O5 S
CI PMS





HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l5 full
FULL SEARCH INITIATED 08:17:29 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 31995 TO ITERATE

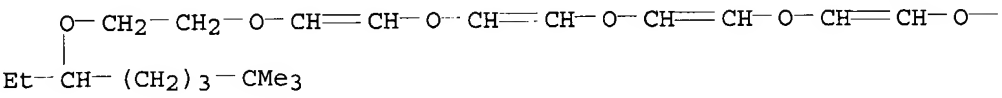
100.0% PROCESSED 31995 ITERATIONS 480 ANSWERS
SEARCH TIME: 00.00.01

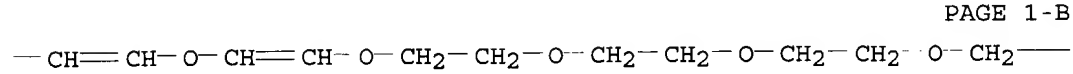
L7 480 SEA SSS FUL L5

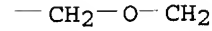
=> s l7 not pms/ci
1010338 PMS/CI
L8 279 L7 NOT PMS/CI

=> d scan

L8 279 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 3,6,9,12,15,18,21,24,27,30,33,36-Dodecaoxadotetraconta-16,19,22,25,28,31-hexaene-1-sulfonic acid, 37-ethyl-41,41-dimethyl- (9CI)
MF C34 H58 O15 S







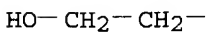
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s isethionic acid/cn
L9 1 ISETHIONIC ACID/CN

=> d

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 107-36-8 REGISTRY
CN Ethanesulfonic acid, 2-hydroxy- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN (2-Hydroxyethyl)sulfonic acid
CN (Hydroxyethyl)sulfonic acid
CN 2-Hydroxethylsulfonic acid
CN 2-Hydroxyethanesulfonic acid
CN Ethanolsulfonic acid
CN **Isethionic acid**
CN NSC 60516
FS 3D CONCORD
DR 51694-03-2
MF C2 H6 O4 S
CI COM
LC STN Files: AGRICOLA, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO,
    CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM,
    DDFU, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*,
    MSDS-OHS, PROMT, PS, RTECS*, TOXCENTER, USPAT2, USPATFULL
      (*File contains numerically searchable property data)
    Other Sources: EINECS**, NDSL**, TSCA**
      (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

893 REFERENCES IN FILE CA (1907 TO DATE)
407 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
893 REFERENCES IN FILE CAPLUS (1907 TO DATE)
19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d his

(FILE 'HOME' ENTERED AT 07:45:54 ON 18 MAY 2004)

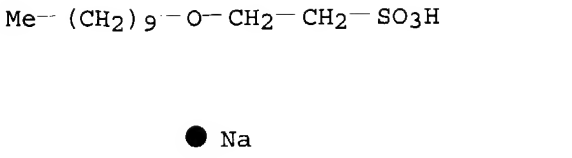
FILE 'REGISTRY' ENTERED AT 07:46:04 ON 18 MAY 2004
L1 8 S BOROXINE
L2 0 S BIS AZINYL
L3 6 S AZINYL
L4 285790 S 1-6
L5 STRUCTURE UPLOADED
L6 14 S L5
L7 480 S L5 FULL
L8 279 S L7 NOT PMS/CI
L9 1 S ISETHIONIC ACID/CN

=> s l8 not n/els
16361118 N/ELS
L10 229 L8 NOT N/ELS

=> s l10 and 4/o
3325856 4/O
L11 46 L10 AND 4/O

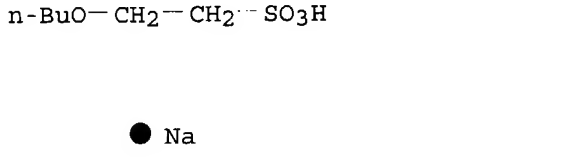
=> d scan

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(decyloxy)-, sodium salt (9CI)
MF **C12 H26 O4 S . Na**

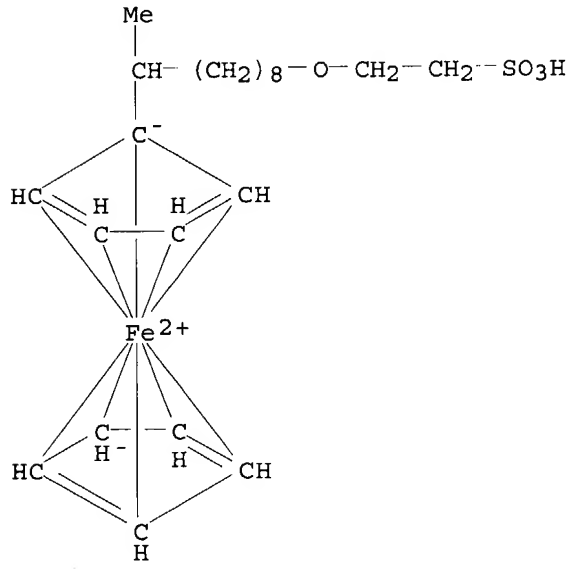


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

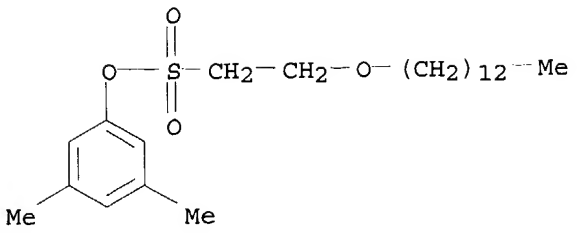
L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-butoxy-, sodium salt (9CI)
MF **C6 H14 O4 S . Na**



L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ferrocene, [1-methyl-9-(2-sulfoethoxy)nonyl]-, sodium salt (9CI)
MF **C22 H34 Fe O4 S . Na**
CI CCS

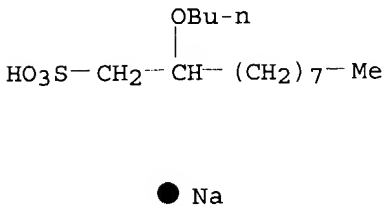


L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(tridecyloxy)-, 3,5-xylyl ester (7CI)
MF **C23 H40 O4 S**



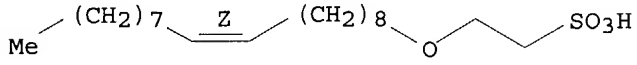
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1-Decanesulfonic acid, 2-butoxy-, sodium salt (9CI)
MF **C14 H30 O4 S . Na**



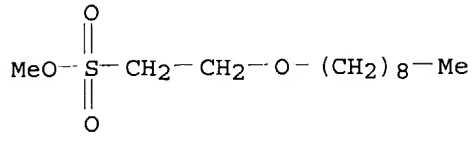
L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(9-octadecenyloxy)-, (Z)- (9CI)
MF **C20 H40 O4 S**
CI COM

Double bond geometry as shown.



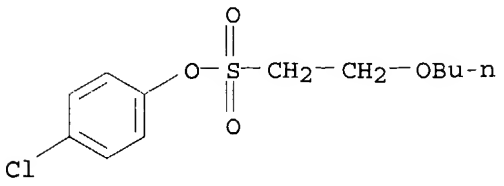
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(nonyloxy)-, methyl ester (7CI)
MF **C12 H26 O4 S**



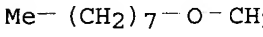
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-butoxy-, 4-chlorophenyl ester (9CI)
MF **C12 H17 Cl O4 S**

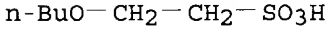


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(octyloxy)-, sodium salt (9CI)
MF **C10 H22 O4 S . Na**

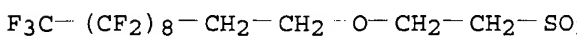


L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-butoxy- (9CI)
MF **C6 H14 O4 S**
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L11 46 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-[(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,11,11,11-nonadecafluoroundecyl)oxy]-, sodium salt (9CI)
MF **C13 H9 F19 O4 S . Na**



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l11 not x/els
7410517 X/ELS

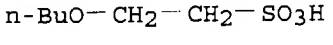
L12 41 L11 NOT X/ELS

=> s l11 not fe/els
724277 FE/ELS
L13 43 L11 NOT FE/ELS

=> s l12 not fe/els
724277 FE/ELS
L14 38 L12 NOT FE/ELS

=> d scan

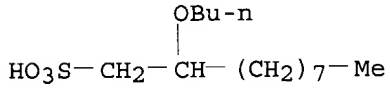
L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(ethylbutoxy)-, sodium salt (8CI)
MF **C8 H18 O4 S . Na**
CI IDS



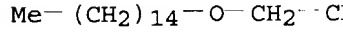
D1—Et

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

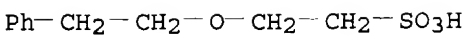
L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1-Decanesulfonic acid, 2-butoxy-, sodium salt (9CI)
MF **C14 H30 O4 S . Na**



L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(pentadecyloxy)-, ion(1-) (9CI)
MF **C17 H35 O4 S**
CI COM

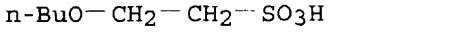


L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(2-phenylethoxy)- (9CI)
MF **C10 H14 O4 S**
CI COM

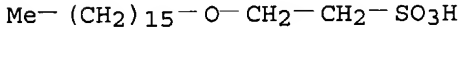


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-butoxy-, sodium salt (9CI)
MF **C6 H14 O4 S . Na**

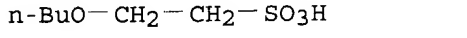


L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(hexadecyloxy)- (9CI)
MF **C18 H38 O4 S**
CI COM



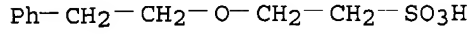
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-butoxy- (9CI)
MF **C6 H14 O4 S**
CI COM



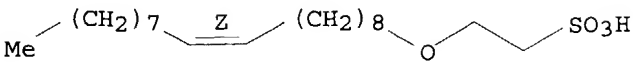
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(2-phenylethoxy)-, sodium salt (9CI)
MF **C10 H14 O4 S . Na**



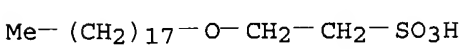
L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(9-octadecenyloxy)-, sodium salt, (Z)- (9CI)
MF **C20 H40 O4 S . Na**

Double bond geometry as shown.



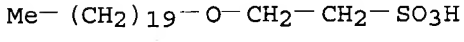
● Na

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(octadecyloxy)-, sodium salt (9CI)
MF **C20 H42 O4 S . Na**



● Na

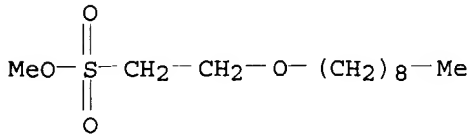
L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(eicosyloxy)-, sodium salt (9CI)
MF **C22 H46 O4 S . Na**



● Na

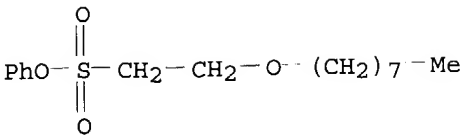
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(nonyloxy)-, methyl ester (7CI)
MF **C12 H26 O4 S**



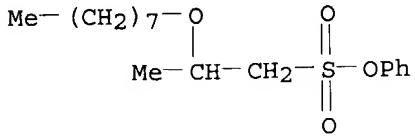
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(octyloxy)-, phenyl ester (7CI)
MF **C16 H26 O4 S**



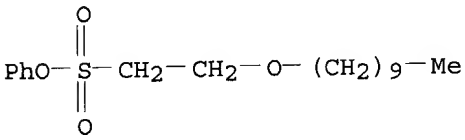
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1-Propanesulfonic acid, 2-(octyloxy)-, phenyl ester (7CI)
MF **C17 H28 O4 S**



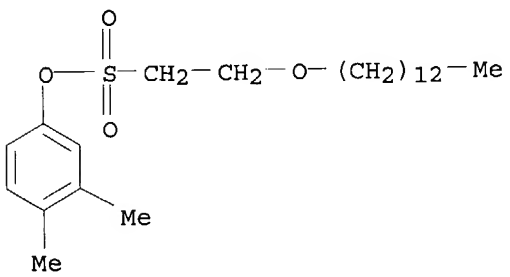
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(decyloxy)-, phenyl ester (7CI)
MF **C18 H30 O4 S**



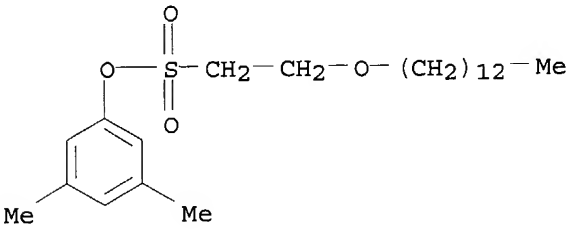
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(tridecyloxy)-, 3,4-xylyl ester (7CI)
MF **C23 H40 O4 S**



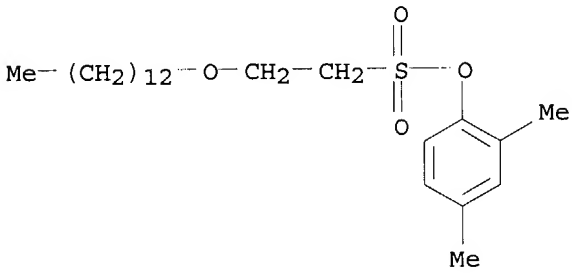
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(tridecyloxy)-, 3,5-xylyl ester (7CI)
MF **C23 H40 O4 S**



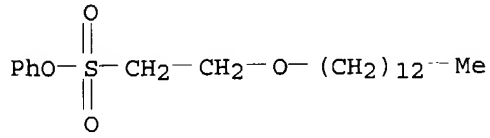
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(tridecyloxy)-, 2,4-xylyl ester (7CI)
MF **C23 H40 O4 S**



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L14 38 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(tridecyloxy)-, phenyl ester (7CI)
MF **C21 H36 O4 S**



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=> s l17/prep
           31 L17
      3148620 PREP/RL
L18          8 L17/PREP
               (L17 (L) PREP/RL)

=> d ibib abs hitstr 1-8

L18  ANSWER 1 OF 8  CAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         1996:304281  CAPLUS
DOCUMENT NUMBER:          124:320216
TITLE:                    Surfactant composition containing alkoxy- and
                          alkenyloxyethanesulfonic acid salts
INVENTOR(S):              Subramanyam, Ravi; Gu, Ben
PATENT ASSIGNEE(S):       Colgate-Palmolive Company, USA
SOURCE:                   PCT Int. Appl., 11 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
     WO 9604357         A1   19960215       WO 1995-US9524   19950727
         W:  AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI,
             GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD,
             MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ,
             TM, TT
         RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT,
             LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE,
             SN, TD, TG
     US 5602087         A    19970211       US 1994-284857   19940802
     AU 9531519         A1   19960304       AU 1995-31519    19950727
     US 5683970         A    19971104       US 1997-796332   19970207
PRIORITY APPLN. INFO.:                   US 1994-284857      19940802
                                         WO 1995-US9524      19950727
OTHER SOURCE(S):          MARPAT 124:320216
AB   Cleaners contain ROCH2CH2SO3X (I, R = C8-22 alkyl or alkenyl, X = alkali
     metal, alkaline earth metal, ammonium or substituted ammonium), a soap or
     addnl. surfactant, and moisture.  I is manufacture by reaction of ROH (R = same
     as above) with BrCH2CH2SO3X (X = same as above) or by reaction of RBr (R =
     same as above) with HOCH2CH2SO3X (X = same as above) in the presence of a
     base and are resistant to degradation when exposed to conditions which cause
     instability to ester bonds.
IT   20829-85-0P
     RL: IMF (Industrial manufacture); PREP (Preparation)
        (alkoxy- and alkenyloxyethanesulfonic acid salts for surfactants for
        cleaners)
RN   20829-85-0  CAPLUS
CN   Ethanesulfonic acid, 2-(dodecyloxy)-, sodium salt (8CI, 9CI)  (CA INDEX
     NAME)
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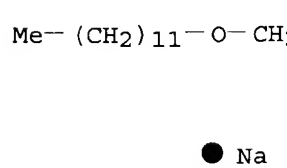

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● Na

L18  ANSWER 2 OF 8  CAPLUS  COPYRIGHT 2004 ACS on STN
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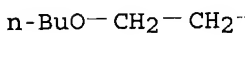
ACCESSION NUMBER: 1996:303738 CAPLUS
DOCUMENT NUMBER: 124:346549
TITLE: Process for the preparation of ether sulfonates
INVENTOR(S): Delpy, Klaus; Engelhardt, Fritz; Zerrer, Ralf; Buehring, Dirk
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Eur. Pat. Appl., 5 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 699661	A2	19960306	EP 1995-113205	19950823
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
DE 4431056	A1	19960307	DE 1994-4431056	19940901
US 5523471	A	19960604	US 1995-520712	19950829
CA 2157344	AA	19960302	CA 1995-2157344	19950831
JP 08193060	A2	19960730	JP 1995-223948	19950831

PRIORITY APPLN. INFO.: DE 1994-4431056 19940901
OTHER SOURCE(S): MARPAT 124:346549

AB The ether sulfonates R1[O[C(R2)(R2')C(R3)(R3')]x]yOC(R4)(R4')C(R5)(R5')SO3M (R1 = H, alkyl, alkenyl, cycloalkyl, aryl, arylalkyl; R2-5' = H, alkyl; M = alkali metal, NH4, protonated amine; x = 1-20; yr = 0-20) are prepared essentially free of foreign salts by the reaction of R1[O[C(R2)(R2')C(R3)(R3')]x]yOH with HOC(R4)(R4')C(R5)(R5')SO3M in the presence of MOH and neutralization with the acids R1[O[C(R2)(R2')C(R3)(R3')]x]yOC(R4)(R4')C(R5)(R5')SO3H. Stirring ethylene glycol 5.0, HOCH2CH2SO3Na 1.0, and NaOH 0.1 mol at 190-195° with distillation of H2O for 3 h, cooling, adding .apprx.0.1 mol HOCH2CH2SO3H, and thin-film concentration at 200°/10 mbar gave HOCH2CH2OCH2CH2SO3Na with purity 98.2% and foreign salt content 0.3%.

IT **83028-92-6P**
RL: IMF (Industrial manufacture); **PREP (Preparation)**
(manufacture of, with high purity)
RN 83028-92-6 CAPLUS
CN Ethanesulfonic acid, 2-butoxy-, sodium salt (9CI) (CA INDEX NAME)



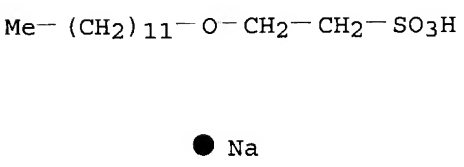
L18 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:27386 CAPLUS
DOCUMENT NUMBER: 122:164077
TITLE: Surface and solution properties of short chain alkoxy ethane sulfonates and carboxylates
AUTHOR(S): Nayyar, Neeru; Rao, B. Ramamohan; Nambudiry, M. E. N.; Narayan, K. S.
CORPORATE SOURCE: Hindustan Lever Res. Cent., Bombay, 400 099, India
SOURCE: Journal of Surface Science and Technology (1992), 8(4), 459-69
CODEN: JSSTE4; ISSN: 0970-1893
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Some ether sulfonates RO(CH2)2SO3Na (R = isononyl, decyl, and dodecyl) and carboxylates R'O(CH2)2CO2Na (R' = isononyl and 2-ethylhexyl) were prepared

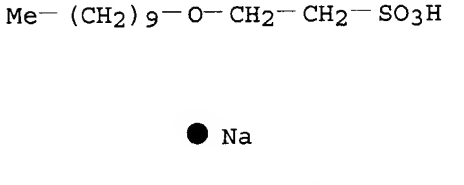
and their properties were studied. X-ray long spacings of the solid samples show that the ethoxy group terminating in the head group may not be present as a linear array but may assume a disordered configuration in the case of the short chain surfactants. However, the configuration appears to be more linear in the case of the C12 analog. The area per mol. also suggests an open packing and this trend is more in carboxylates than in sulfonates. Studies on the lyotropic phase behavior have shown lower Kraft boundaries for carboxylates as compared to sulfonates. The phase sequence is L1/H1/Lα/S. In the case of branched chain surfactants a second isotropic phase (L1') has been noticed in between H1 and Lα-phase. The temperature of onset of L1' is always higher than that for Lα phase.

IT **20829-85-0P**, Sodium 2-dodecyloxyethanesulfonate
101225-35-8P, Sodium 2-decyloxyethanesulfonate
161449-63-4P
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); **PREP (Preparation)**; USES (Uses)
(surfactant; surface solution properties of)

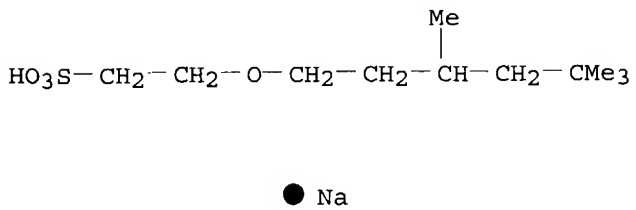
RN 20829-85-0 CAPLUS
CN Ethanesulfonic acid, 2-(dodecyloxy)-, sodium salt (8CI, 9CI) (CA INDEX NAME)



RN 101225-35-8 CAPLUS
CN Ethanesulfonic acid, 2-(decyloxy)-, sodium salt (9CI) (CA INDEX NAME)



RN 161449-63-4 CAPLUS
CN Ethanesulfonic acid, 2-[(3,5,5-trimethylhexyl)oxy]-, sodium salt (9CI) (CA INDEX NAME)



L18 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:442632 CAPLUS
DOCUMENT NUMBER: 111:42632
TITLE: Surfactant combinations and enhanced oil recovery method employing same
INVENTOR(S): Kalpakci, Bayram; Jeans, Yvonne
PATENT ASSIGNEE(S): Standard Oil Co., USA
SOURCE: U.S., 10 pp.

CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

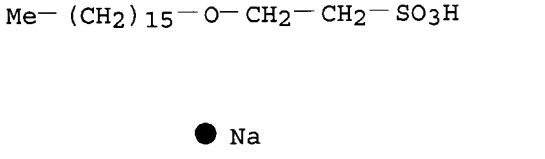
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4811788	A	19890314	US 1986-829431	19860213

PRIORITY APPLN. INFO.: US 1986-829431 19860213

AB A method of recovering oil from a subterranean formation comprises injection into the formation an aqueous composition containing a surface-active agent of (A) (H13C6)(H17C8)CHCH2(OCH2CH2)2SO3-Na+ and (B) H41C20(OCH2CH2)3SO3-Na+ at 0.02-7:1 B:A mol ratio. This method is especially suitable for use with formations where the surfactants used are exposed to temps. in the range of 15-120° and above, high pressures, high concns. of divalent metal ions and high salinities.

IT **121594-43-2P**
RL: **PREP (Preparation)**
(intermediate, preparation of, for preparation of hexyldecyloxyethoxyethoxyethane sulfonate surfactant, in enhanced petroleum recovery)

RN 121594-43-2 CAPLUS
CN Ethanesulfonic acid, 2-(hexadecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



● Na

L18 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:195186 CAPLUS
DOCUMENT NUMBER: 110:195186
TITLE: Preparation of sulfoethane derivatives for use as surfactants
INVENTOR(S): Clauss, Wolfgang; Fell, Bernhard Prof; Hendricks, Guenter; Kurze, Werner; Laemmerzahl, Frank; Wassenberg, Willy
PATENT ASSIGNEE(S): Raschig G.m.b.H., Fed. Rep. Ger.
SOURCE: Ger. Offen., 7 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3718774	A1	19881215	DE 1987-3718774	19870604
EP 293912	A2	19881207	EP 1988-108912	19880603
EP 293912	A3	19901227		
EP 293912	B1	19950125		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
EP 293913	A1	19881207	EP 1988-108913	19880603
EP 293913	B1	19910911		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 01038057	A2	19890208	JP 1988-138240	19880603
JP 01313458	A2	19891218	JP 1988-138241	19880603
AT 67181	E	19910915	AT 1988-108913	19880603

ES 2066772 T3 19950316 ES 1988-108912 19880603
PRIORITY APPLN. INFO.: DE 1987-3718774 19870604
EP 1988-108913 19880603

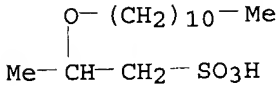
OTHER SOURCE(S): MARPAT 110:195186

AB Surfactants RCR1R2CR3R4SO3A (R = alkoxy, alkoxycarbonyloxy, substituted amino, etc.; R1 = C1-20 alkyl; R2-R4 = H, C1-20 alkyl; A = H, alkali metal, etc.) are prepared by the reaction of an olefin with SO3 between +20° and -78° to give a 1,2-sultone, followed by treatment with an alc. (or its alkali metal salt) or an amine. Adding propene to C2H4Cl2 containing SO3 at 0-15°, followed by the addition of a solution of undecanol in C2H4Cl2, refluxing, and treatment with NaOH gave Me(CH2)10OCHMeCH2SO3Na.

IT **120487-32-3P**
RL: IMF (Industrial manufacture); **PREP (Preparation)**
(preparation of surface-active)

RN 120487-32-3 CAPLUS

CN 1-Propanesulfonic acid, 2-(undecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



L18 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1984:474769 CAPLUS

DOCUMENT NUMBER: 101:74769

TITLE: Synthesis and performance of linear monoisomeric ethylene oxide sulfonate surfactants

AUTHOR(S): Carmona, I.; Schechter, R. S.; Wade, W. H.; Weerasooriya, U.; Weerasooriya, V.

CORPORATE SOURCE: Dep. Chem., Univ. Texas, Austin, TX, 78712, USA

SOURCE: Journal of Dispersion Science and Technology (1983), 4(4), 361-70
CODEN: JDTEDS; ISSN: 0193-2691

DOCUMENT TYPE: Journal

LANGUAGE: English

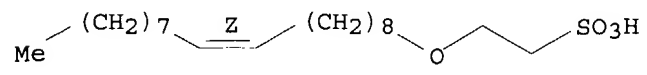
AB The reaction of BrCH2CH2SO3Na [4263-52-9] with Na alcoholates gave 5 surfactants ROCH2CH2SO3Na with R = octadecyl, oleyl, 2-oleyloxyethyl, 2-(2-oleyloxyethoxy)ethyl, and eicosyl, resp. The surfactants produced Winsor III systems (microemulsions) with suitable alkane oil phases and the appropriate salt and cosolvent concns.

IT **87072-76-2P 91362-46-8P 91362-49-1P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(preparation and surfactant properties of)

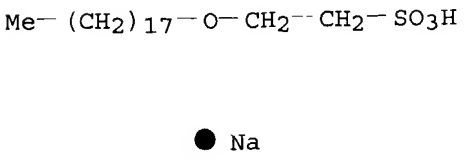
RN 87072-76-2 CAPLUS

CN Ethanesulfonic acid, 2-(9-octadecenyloxy)-, sodium salt, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

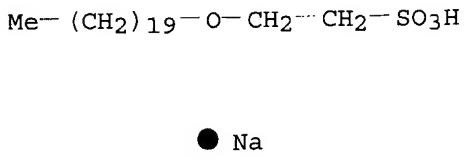


RN 91362-46-8 CAPLUS
CN Ethanesulfonic acid, 2-(octadecyloxy)-, sodium salt (9CI) (CA INDEX NAME)



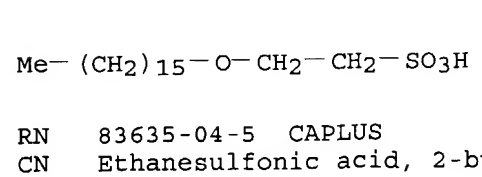
● Na

RN 91362-49-1 CAPLUS
CN Ethanesulfonic acid, 2-(eicosyloxy)-, sodium salt (9CI) (CA INDEX NAME)

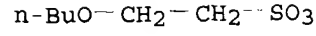


● Na

L18 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1983:4257 CAPLUS
DOCUMENT NUMBER: 98:4257
TITLE: Betylates. 3. Preparative nucleophilic substitution by way of [2]-, [3]-, and [4]betylates. Stoichiometric phase transfer and substrate-reagent ion-pair (SRIP) reactions of betylates
AUTHOR(S): King, J. F.; Loosmore, S. M.; Aslam, M.; Lock, J. D.; McGarrity, M. J.
CORPORATE SOURCE: Dep. Chem., Univ. West. Ontario, London, ON, N6A 5B7, Can.
SOURCE: Journal of the American Chemical Society (1982), 104(25), 7108-22
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 98:4257
AB The preparation of alkyl [2]-, [3]-, and [4]betylates [(trialkylammonio)alkanesulfonates] and the corresponding norbetylates [(dialkylammonio)alkanesulfonates] is described, and their use as intermediates in the transformation of the hydroxyl group of primary and secondary alcs. is illustrated by examples involving 36 different nucleophiles and 10 different alkyl groups; for a number of products these procedures provide what appears to be the best, or only, access. The reactions generally take place under mild conditions, are easily worked up giving good to excellent yields, and may be carried out in solvents ranging from water to hydrocarbons.
IT **83635-03-4P 83635-04-5P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(preparation of)
RN 83635-03-4 CAPLUS
CN Ethanesulfonic acid, 2-(hexadecyloxy)- (9CI) (CA INDEX NAME)



RN 83635-04-5 CAPLUS
CN Ethanesulfonic acid, 2-butoxy- (9CI) (CA INDEX NAME)



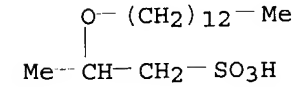
L18 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1967:432482 CAPLUS
DOCUMENT NUMBER: 67:32482
TITLE: β-Alkyl-β'-alkoxyisethionates
INVENTOR(S): Schenck, Leslie M.; Nunn, Leslie G., Jr.
PATENT ASSIGNEE(S): General Aniline and Film Corp.
SOURCE: Ger., 4 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1234708		19670223		
PRIORITY APPLN. INFO.:			US	19601122

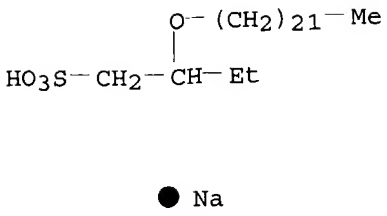
GI For diagram(s), see printed CA Issue.
AB Title compds. R(OCHR2CH2)nOCHR1CH2SO3X (I) and II, are surface active agents and are prepared from R1CH:CHSO3X or HOCHR1CH2SO3X, and R(OCHR2CH2)nOH or III in NaOH or KOH at pH 9.7-11.7 and 140-220° for 2-6.5 hrs. At >180° the reaction is carried out in a stainless steel autoclave. Thus, C13H27OH 200, HOCHMeCH2SO3Na (IV) 162, and 50% aqueous NaOH 6 parts was heated 1 hr. at 170°, then 40 min. at 200°. The mixture was separated and cooled to give 20% Na β-(tridecyloxy)propanesulfonate (recrystd. from MeOH). Similarly, the following were prepared: Na β-(ethylhexyloxy)propanesulfonate, K β-ethoxypropanesulfonate, Na β-(docosyloxy)butanesulfonate, C18H37(OCH2CH2)10OCHBuCH2SO3Na, and Na β-(tridecyloxy)propanesulfonate. A mixture of 204 parts reaction mixture of 1 mole nonylphenol with 4 moles ethylene oxide, 81 parts IV, and 6 parts aqueous 50% NaOH was heated to 180° in 40 min. and maintained 2 hrs. at 180° to give 9% II (R1 = Me, R2, R3 and R4 = H, R5 = C9H19, X = Na, m = 4) which was isolated from unreacted alc. with a strong basic anionic ion exchange resin. Similarly, the following were prepared: EtOCH2CH2OCHMeCH2SO3Na, Na β-(nonylphenoxy)ethoxypentanesulfonate. Also prepared were the following II (R1, R2, R3, R4, R5, X, and m given): Me, Me, H, H, H, Na, 1; Me, Et, 2-Me, H, H, Na, 1; Me, H, 2-C9H19, 4-C9H19, H, Na, 20; Me, H, 2-Bu, 4-Bu, 6-Bu, Na, 10; Me, H, H, 4-C8H17, H, Na, 10; Me, H, 2-C12H25, 4-C12H25, 6-C12H25, Na, 10; Me, H, H, 4-C18H37, H, Na, 10.

IT **14817-49-3P 14897-86-0P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(preparation of)

RN 14817-49-3 CAPLUS
CN 1-Propanesulfonic acid, 2-(tridecyloxy)-, sodium salt (8CI) (CA INDEX NAME)



RN 14897-86-0 CAPLUS
CN 1-Butanesulfonic acid, 2-(docosyloxy)-, sodium salt (8CI) (CA INDEX NAME)



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*** FILE CONTAINS  8,932,479 SUBSTANCES ***

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    Reaction data for BEILSTEIN compounds may be displayed
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    for example can be restricted to compounds with available
    reaction information by concatenation with PRE/FA, REA/FA or
    more general with RX/FA. The BEILSTEIN Registry Number (BRN)
    is the link between a BEILSTEIN compound and belonging reactions.
    For more detailed reaction searches BRNs can be selected from
    substance answer sets and searched in the next step as reaction
    partner BRNs - Reactant (RX.RBRN) or Product BRN (RX.PBRN).
    After a search for reaction details substance documents
    associated with reactants or products may be retrieved by
    searching RX.PBRNs or RX.RBRNs as BRNs. <<<


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FULL SCREEN SEARCH COMPLETED -   8089 TO ITERATE
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```
 64.5% PROCESSED    5214 ITERATIONS                          17 ANSWERS

100.0% PROCESSED    8089 ITERATIONS                         35 ANSWERS
SEARCH TIME: 00.00.32

L19          35 SEA SSS FUL L5

=> s l19 not ester
       2029496 ESTER
           207 ESTERS
       2029618 ESTER
                 (ESTER OR ESTERS)
L20          23 L19 NOT ESTER

=> s l20 not phenyl?
       2387060 PHENYL?
L21          23 L20 NOT PHENYL?

=> d ide

L21  ANSWER 1 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

      Beilstein Records (BRN):          9322343
      Chemical Name (CN):               2-(2-methoxy-ethoxy)-ethanesulfonic acid
      Autonom Name (AUN):               2-(2-methoxy-ethoxy)-ethanesulfonic acid
      Molec. Formula (MF):              C5 H12 O5 S
      Molecular Weight (MW):            184.21
      Lawson Number (LN):               2770, 514, 289
      Compound Type (CTYPE):            acyclic
      Constitution ID (CONSID):         7869215
      Tautomer ID (TAUTID):             8761231
      Entry Date (DED):                 2003/07/25
      Update Date (DUPD):               2003/07/25
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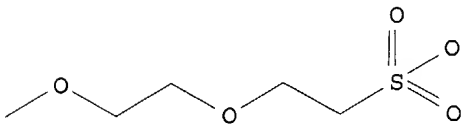


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

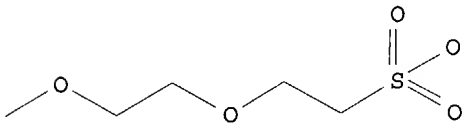
This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d ide

L21 ANSWER 1 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	9322343
Chemical Name (CN):	2-(2-methoxy-ethoxy)-ethanesulfonic acid
Autonom Name (AUN):	2-(2-methoxy-ethoxy)-ethanesulfonic acid
Molec. Formula (MF):	C5 H12 O5 S
Molecular Weight (MW):	184.21
Lawson Number (LN):	2770, 514, 289
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	7869215
Tautomer ID (TAUTID):	8761231
Entry Date (DED):	2003/07/25
Update Date (DUPD):	2003/07/25



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d rxpro

L21 ANSWER 1 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX

Reaction ID (.ID):	9271907
Reactant BRN (.RBRN):	8760353
Reactant (.RCT):	2-(2-methoxy-ethoxy)-ethanethiol
Product BRN (.PBRN):	9322343
Product (.PRO):	2-(2-methoxy-ethoxy)-ethanesulfonic acid
No. of React. Details (.NVAR):	1

Reaction Details:
RX

Reaction RID (.RID):	9271907.1
Reaction Classification (.CL):	Preparation
Yield (.YDT):	33 percent (BRN=9322343)
Reagent (.RGT):	25 percent aq. 2KHSO5*KHSO4*K2SO4
Time (.TIM):	1 hour(s)
Temperature (.T):	20 Cel

Reference(s):
1. Yanic, Cemile; Bredenkamp, Martin W.; Jacobs, Edmund P.; Swart, Pieter, Bioorg.Med.Chem.Lett., CODEN: BMCLE8, 13(7), <2003>, 1381 - 1384; BABS-6388080

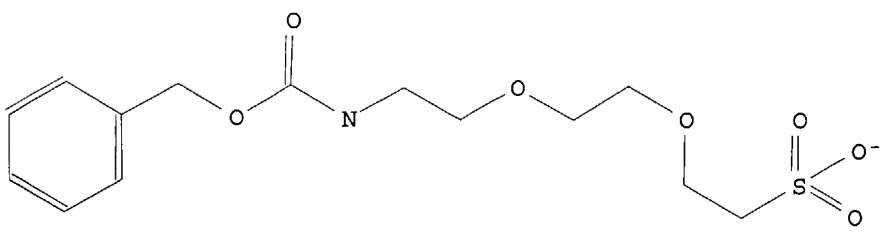
=> d ide 2-4

L21 ANSWER 2 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	7508034
Chemical Name (CN):	sodium; 2-<2-(2-benzyloxycarbonylamino-ethoxy)-ethoxy>-ethanesulfonate
Autonom Name (AUN):	sodium; 2-<2-(2-benzyloxycarbonylamino-ethoxy)-ethoxy>-ethanesulfonate
Lin. Struct. Formula (LSF):	C14H20NO7S(1-)*Na(1+)
Fragm. Molec. Formula (FMF):	C14 H20 N O7 S , Na
Molecular Formula (MF):	C14 H20 N O7 S . Na
Molecular Weight (MW):	346.37, 22.99
Fragment BRN (FBRN):	7495334, 3587169
Lawson Number (LN):	5228, 3122, 2770, 1762, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	6473354
Tautomer ID (TAUTID):	7174295
Beilstein Citation (BSO):	6-06
Entry Date (DED):	1996/11/12
Update Date (DUPD):	1997/08/11

CM 1

FBRN 7495334
FMF C14 H20 N O7 S



CM 2

FBRN 3587169
FMF Na

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	5
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	1

This substance also occurs in Reaction Documents:

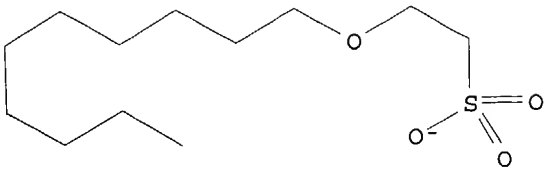
Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 3 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	6549235
Beilstein Pref. RN (BPR):	101225-35-8
CAS Reg. No. (RN):	101225-35-8
Chemical Name (CN):	sodium 2-decoxyethanesulfonate
Lin. Struct. Formula (LSF):	C12H25O4S(1-)*Na(1+)
Fragm. Molec. Formula (FMF):	C12 H25 O4 S , Na
Molecular Formula (MF):	C12 H25 O4 S . Na
Molecular Weight (MW):	265.39, 22.99
Fragment BRN (FBRN):	6507616, 3587169
Lawson Number (LN):	2770, 362
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	5704881
Tautomer ID (TAUTID):	6241896
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1994/04/18
Update Date (DUPD):	1994/04/18

CM 1

FBRN 6507616
FMF C12 H25 O4 S



CM 2

FBRN 3587169
FMF Na

Field Availability:

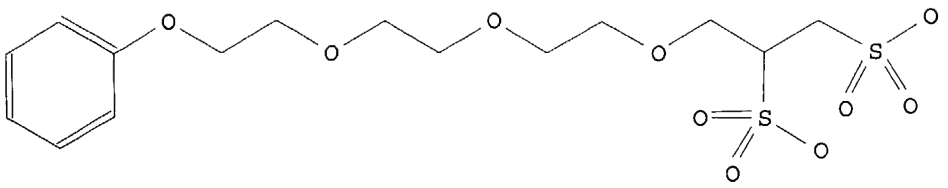
Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CMC	Critical Micelle Concentration (MCS)	3
OTHE	Other Thermochemical Data	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 4 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	6540050
Chemical Name (CN):	3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid
Autonom Name (AUN):	3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid
Molec. Formula (MF):	C15 H24 O10 S2
Molecular Weight (MW):	428.47
Lawson Number (LN):	5219, 2772, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	5684054
Tautomer ID (TAUTID):	6227274
Beilstein Citation (BSO):	6-06
Entry Date (DED):	1994/04/18
Update Date (DUPD):	1994/04/18



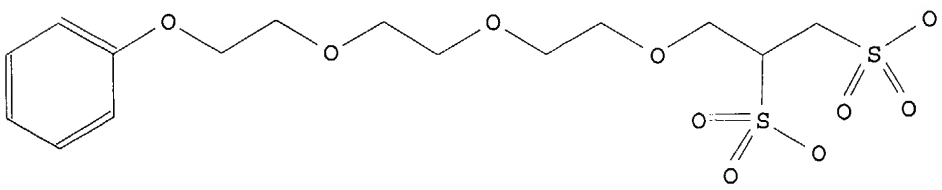
Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
NMR	Nuclear Magnetic Resonance	2

=> d 4-10 ide

L21 ANSWER 4 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	6540050
Chemical Name (CN):	3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid
Autonom Name (AUN):	3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid
Molec. Formula (MF):	C15 H24 O10 S2
Molecular Weight (MW):	428.47
Lawson Number (LN):	5219, 2772, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	5684054
Tautomer ID (TAUTID):	6227274
Beilstein Citation (BSO):	6-06
Entry Date (DED):	1994/04/18
Update Date (DUPD):	1994/04/18



Field Availability:

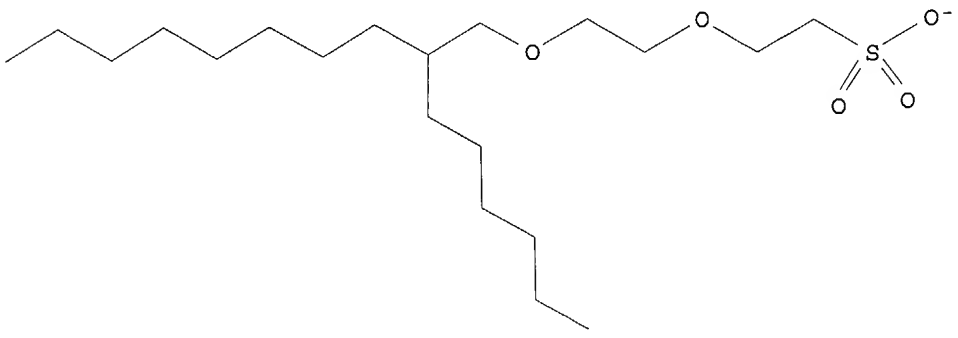
Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
NMR	Nuclear Magnetic Resonance	2

L21 ANSWER 5 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	6257732
Beilstein Pref. RN (BPR):	113218-99-8
CAS Reg. No. (RN):	113218-99-8
Chemical Name (CN):	sodium 2-<2-(2-hexyldecyloxy)ethoxy>ethanesulfonate
Lin. Struct. Formula (LSF):	C20H41O5S(1-)*Na(1+)
Fragm. Molec. Formula (FMF):	C20 H41 O5 S , Na
Molecular Formula (MF):	C20 H41 O5 S . Na
Molecular Weight (MW):	393.60, 22.99
Fragment BRN (FBRN):	6224420, 3587169
Lawson Number (LN):	2770, 514, 377
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	5470304
Tautomer ID (TAUTID):	5973514
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1993/10/20
Update Date (DUPD):	1993/10/20

CM 1

FBRN 6224420
FMF C20 H41 O5 S



CM 2

FBRN 3587169

FMF Na

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
LLSM	Liquid/Liquid System (MCS)	1
NMR	Nuclear Magnetic Resonance	2

This substance also occurs in Reaction Documents:

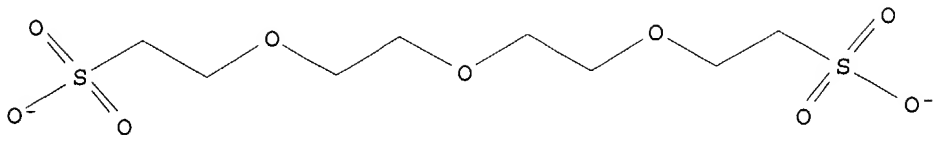
Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 6 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	4834618
Beilstein Pref. RN (BPR):	135456-44-9
CAS Reg. No. (RN):	135456-44-9
Chemical Name (CN):	Disodium 3,6,9-trioxaundecane-1,11-disulfonate
Lin. Struct. Formula (LSF):	C8H16O9S2(2-)*2Na(1+)
Fragm. Molec. Formula (FMF):	C8 H16 O9 S2 , Na
Molecular Formula (MF):	C8 H16 O9 S2 . 2 Na
Molecular Weight (MW):	320.33, 22.99
Fragment BRN (FBRN):	4819104, 3587169
Lawson Number (LN):	2770, 514
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	4350668
Tautomer ID (TAUTID):	4684488
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1992/07/20
Update Date (DUPD):	1992/12/09

CM 1

FBRN 4819104
FMF C8 H16 O9 S2



CM 2

FBRN 3587169
FMF Na

Field Availability:

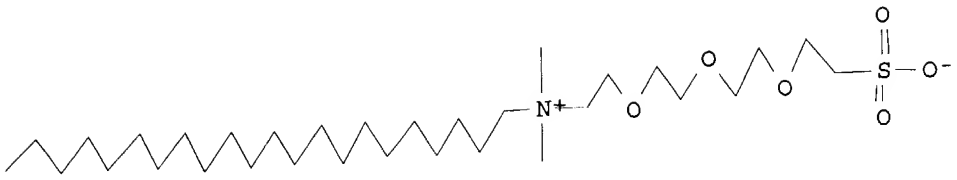
Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 7 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	4601791
Molec. Formula (MF):	C32 H67 N O6 S
Molecular Weight (MW):	593.94
Lawson Number (LN):	3122, 2942, 2817, 2770, 514
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	4192035
Tautomer ID (TAUTID):	4487514
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1991/12/02
Update Date (DUPD):	1991/12/02

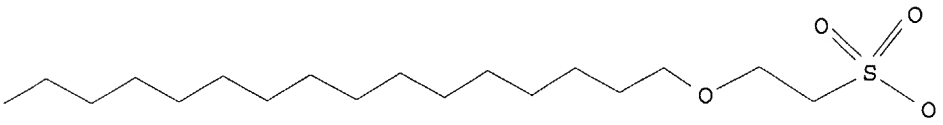


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	5
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
MS	Mass Spectrum	1

L21 ANSWER 8 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	4449289
Beilstein Pref. RN (BPR):	83635-03-4
CAS Reg. No. (RN):	83635-03-4
Chemical Name (CN):	2-hexadecyloxy-ethanesulfonic acid
Autonom Name (AUN):	2-hexadecyloxy-ethanesulfonic acid
Molec. Formula (MF):	C18 H38 O4 S
Molecular Weight (MW):	350.56
Lawson Number (LN):	2770, 376
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	4035885
Tautomer ID (TAUTID):	4314793
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1991/12/02
Update Date (DUPD):	1993/02/15



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2

FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

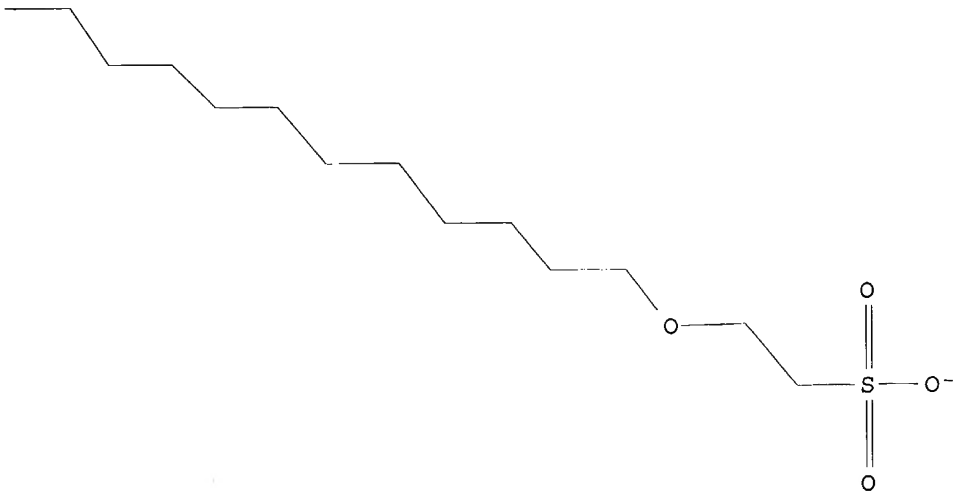
Code	Name	Occurrence
RX	Reaction Documents	3
RXPRO	Substance is Reaction Product	3

L21 ANSWER 9 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3772596
Beilstein Pref. RN (BPR):	20829-85-0
CAS Reg. No. (RN):	20829-85-0
Chemical Name (CN):	2-dodecyloxy-ethanesulfonic acid ; sodium-salt
Lin. Struct. Formula (LSF):	C14H29O4S(1-)*Na(1+)
Fragm. Molec. Formula (FMF):	C14 H29 O4 S , Na
Molecular Formula (MF):	C14 H29 O4 S . Na
Molecular Weight (MW):	293.44, 22.99
Fragment BRN (FBRN):	3671578, 3587169
Lawson Number (LN):	2770, 380
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	3402521
Tautomer ID (TAUTID):	3640971
Beilstein Citation (BSO):	4-04-00-00084, 6-04
Entry Date (DED):	1991/02/26
Update Date (DUPD):	1994/04/18

CM 1

FBRN 3671578
FMF C14 H29 O4 S



CM 2

FBRN 3587169
FMF Na

Field Availability:

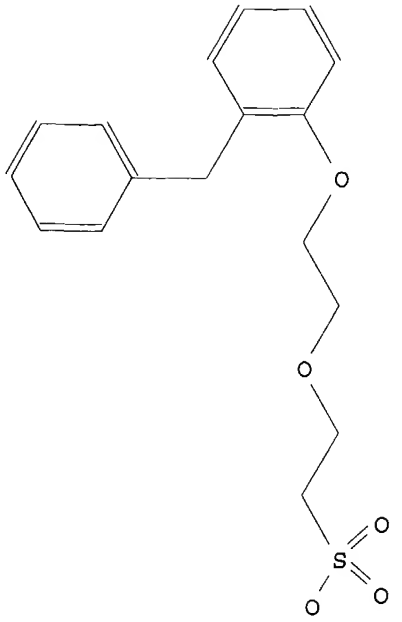
Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	2
ED	Entry Date	1
UPD	Update Date	1
BSPM	Boundary Surface Phenomena (MCS)	1
OTHE	Other Thermochemical Data	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXPRO	Substance is Reaction Product	2

L21 ANSWER 10 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3460906
Chemical Name (CN):	2-<2-(2-benzyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(2-benzyl-phenoxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C17 H20 O5 S
Molecular Weight (MW):	336.40
Lawson Number (LN):	5520, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3061860
Tautomer ID (TAUTID):	3297276
Beilstein Citation (BSO):	3-06-00-03350
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

=> d frxpro 5

L21 ANSWER 5 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX

Reaction ID (.ID):	3473919
Reactant BRN (.RBRN):	6193239
Reactant (.RCT):	1-iodo-2-<2-(2-hexyldecyloxy)ethoxy>ethane
Product BRN (.PBRN):	6257732
Product (.PRO):	sodium 2-<2-(2-hexyldecyloxy)ethoxy>ethanesulfonate
No. of React. Details (.NVAR):	1

Reaction Details:
RX

Reaction RID (.RID):	3473919.1
Reaction Classification (.CL):	Preparation
Reagent (.RGT):	sodium sulfite

Solvent (.SOL): H2O, propan-2-ol
Time (.TIM): 96 hour(s)
Other Conditions (.COND): Heating
Note(s) (.COM): Yield given
Reference(s):
1. Choi, Kee-Ju; Turkevich, Leonid A.; Loza, Roman, J.Phys.Chem., CODEN: JPCHAX, 92(8), <1988>, 2248-2256; BABS-5759849

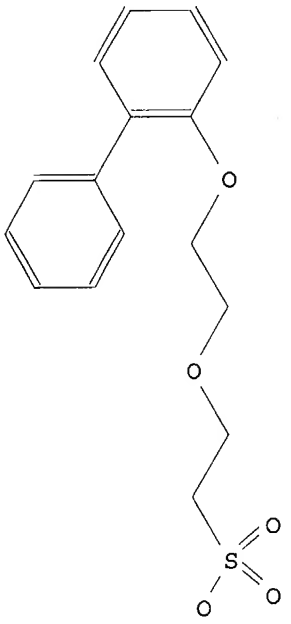
=> d frxpro 10

L21 ANSWER 10 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

=> d 11-15 ide

L21 ANSWER 11 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 3431383
Chemical Name (CN): 2-(2-biphenyl-2-yloxy-ethoxy)-ethanesulfonic acid
Autonom Name (AUN): 2-<2-(biphenyl-2-yloxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF): C16 H18 O5 S
Molecular Weight (MW): 322.38
Lawson Number (LN): 5519, 2770, 514
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 3055613
Tautomer ID (TAUTID): 3293053
Beilstein Citation (BSO): 3-06-00-03289
Entry Date (DED): 1992/10/13
Update Date (DUPD): 1992/10/13

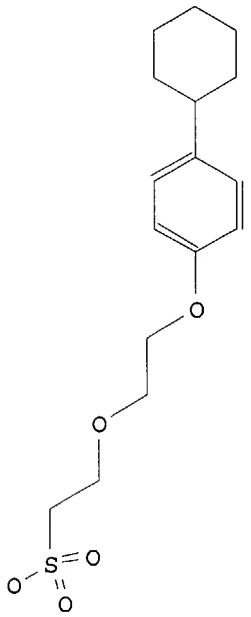


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

L21 ANSWER 12 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3430258
Chemical Name (CN):	2-<2-(4-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(4-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C16 H24 O5 S
Molecular Weight (MW):	328.42
Lawson Number (LN):	5375, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3076158
Tautomer ID (TAUTID):	3303113
Beilstein Citation (BSO):	3-06-00-02506
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13



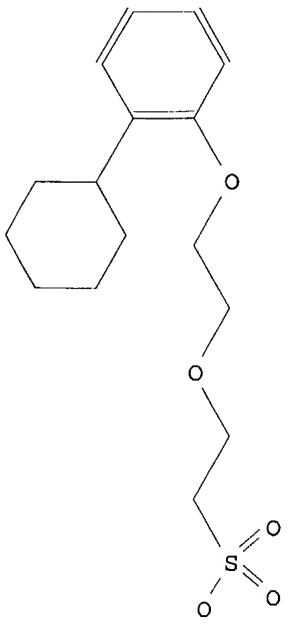
Field Availability:

Code	Name	Occurrence

BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	2

L21 ANSWER 13 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3413152
Chemical Name (CN):	2-<2-(2-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(2-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C16 H24 O5 S
Molecular Weight (MW):	328.42
Lawson Number (LN):	5375, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3078299
Tautomer ID (TAUTID):	3301960
Beilstein Citation (BSO):	3-06-00-02495
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13



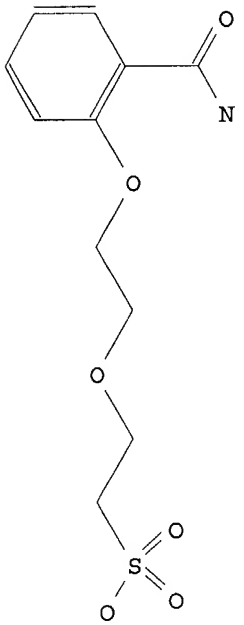
Field Availability:

Code	Name	Occurrence

BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	2

L21 ANSWER 14 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3387108
Chemical Name (CN):	2-<2-(2-carbamoyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(2-carbamoyl-phenoxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C11 H15 N O6 S
Molecular Weight (MW):	289.30
Lawson Number (LN):	11694, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3019252
Tautomer ID (TAUTID):	3245637
Beilstein Citation (BSO):	4-10-00-00179
Entry Date (DED):	1990/02/15
Update Date (DUPD):	1992/08/05



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1

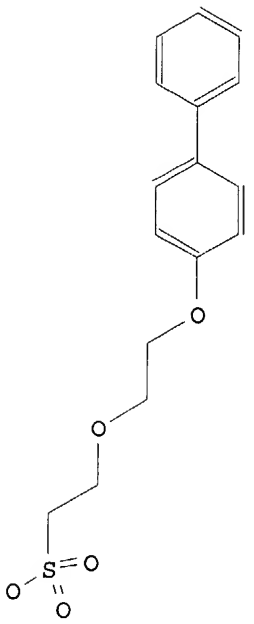
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1
MP	Melting Point	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 15 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3383561
Chemical Name (CN):	2-(2-biphenyl-4-yloxy-ethoxy)-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(biphenyl-4-yloxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C16 H18 O5 S
Molecular Weight (MW):	322.38
Lawson Number (LN):	5519, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3020570
Tautomer ID (TAUTID):	3230372
Beilstein Citation (BSO):	3-06-00-03326
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

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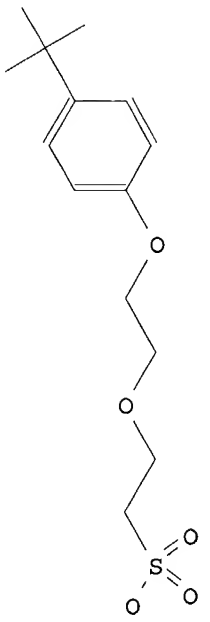
L21 ANSWER 16 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3370642
Chemical Name (CN):	2-<2-(4-tert-butyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(4-tert-butyl-phenoxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C14 H22 O5 S
Molecular Weight (MW):	302.38
Lawson Number (LN):	5250, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3007799
Tautomer ID (TAUTID):	3223364
Beilstein Citation (BSO):	3-06-00-01868
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13

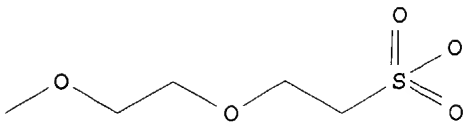


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

L21 ANSWER 1 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	9322343
Chemical Name (CN):	2-(2-methoxy-ethoxy)-ethanesulfonic acid
Autonom Name (AUN):	2-(2-methoxy-ethoxy)-ethanesulfonic acid
Molec. Formula (MF):	C5 H12 O5 S
Molecular Weight (MW):	184.21
Lawson Number (LN):	2770, 514, 289
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	7869215
Tautomer ID (TAUTID):	8761231
Entry Date (DED):	2003/07/25
Update Date (DUPD):	2003/07/25



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

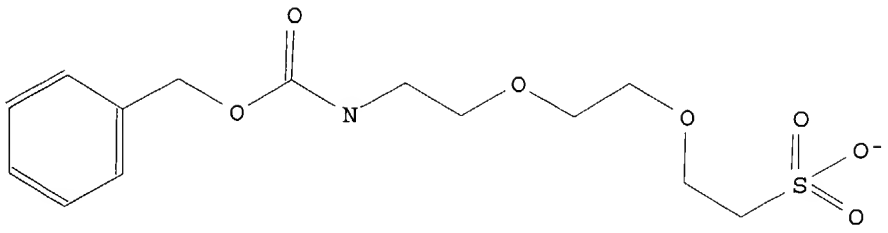
Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 2 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 7508034
Chemical Name (CN): sodium; 2-<2-(2-benzyloxycarbonylamino-ethoxy)-ethoxy>-ethanesulfonate
Autonom Name (AUN): sodium; 2-<2-(2-benzyloxycarbonylamino-ethoxy)-ethoxy>-ethanesulfonate
Lin. Struct. Formula (LSF): C14H20NO7S(1-)*Na(1+)
Fragm. Molec. Formula (FMF): C14 H20 N O7 S , Na
Molecular Formula (MF): C14 H20 N O7 S . Na
Molecular Weight (MW): 346.37, 22.99
Fragment BRN (FBRN): 7495334, 3587169
Lawson Number (LN): 5228, 3122, 2770, 1762, 514
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 6473354
Tautomer ID (TAUTID): 7174295
Beilstein Citation (BSO): 6-06
Entry Date (DED): 1996/11/12
Update Date (DUPD): 1997/08/11

CM 1

FBRN 7495334
FMF C14 H20 N O7 S



CM 2

FBRN 3587169
FMF Na

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	5
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	1
NMR	Nuclear Magnetic Resonance	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

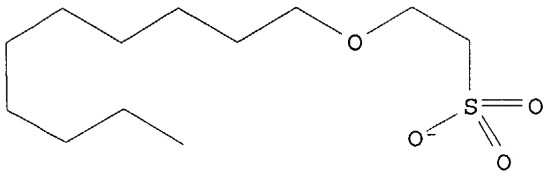
L21 ANSWER 3 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	6549235
Beilstein Pref. RN (BPR):	101225-35-8
CAS Reg. No. (RN):	101225-35-8
Chemical Name (CN):	sodium 2-decoxyethanesulfonate
Lin. Struct. Formula (LSF):	C12H25O4S(1-)*Na(1+)
Fragm. Molec. Formula (FMF):	C12 H25 O4 S , Na
Molecular Formula (MF):	C12 H25 O4 S . Na
Molecular Weight (MW):	265.39, 22.99
Fragment BRN (FBRN):	6507616, 3587169
Lawson Number (LN):	2770, 362
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	5704881
Tautomer ID (TAUTID):	6241896
Beilstein Citation (BSO):	6-04

Entry Date (DED): 1994/04/18
Update Date (DUPD): 1994/04/18

CM 1

FBRN 6507616
FMF C12 H25 O4 S



CM 2

FBRN 3587169
FMF Na

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CMC	Critical Micelle Concentration (MCS)	3
OTHE	Other Thermochemical Data	1

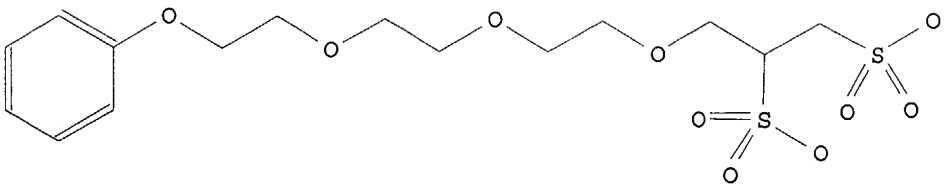
This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 4 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 6540050
Chemical Name (CN): 3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid
Autonom Name (AUN): 3-<2-<2-(2-phenoxy-ethoxy)-ethoxy>-ethoxy>-propane-1,2-disulfonic acid
Molec. Formula (MF): C15 H24 O10 S2

Molecular Weight (MW): 428.47
Lawson Number (LN): 5219, 2772, 514
Compound Type (CTYPE): isocyclic
Constitution ID (CONSID): 5684054
Tautomer ID (TAUTID): 6227274
Beilstein Citation (BSO): 6-06
Entry Date (DED): 1994/04/18
Update Date (DUPD): 1994/04/18



Field Availability:

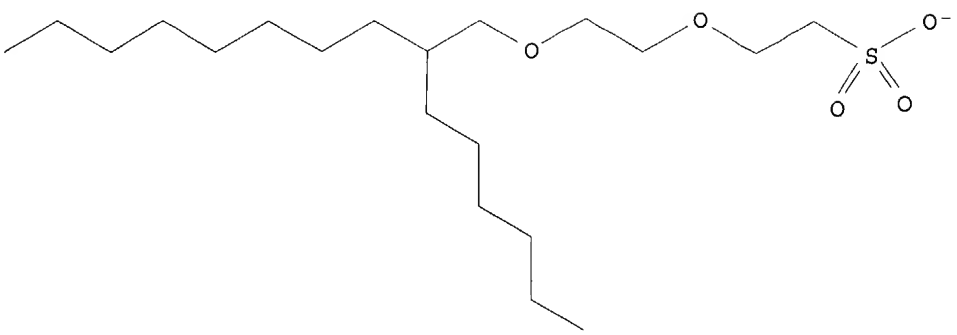
Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
NMR	Nuclear Magnetic Resonance	2

L21 ANSWER 5 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 6257732
Beilstein Pref. RN (BPR): 113218-99-8
CAS Reg. No. (RN): 113218-99-8
Chemical Name (CN): sodium 2-<2-(2-hexyldecyloxy)ethoxy>ethanesulfonate
Lin. Struct. Formula (LSF): C20H41O5S(1-)*Na(1+)
Fragm. Molec. Formula (FMF): C20 H41 O5 S , Na
Molecular Formula (MF): C20 H41 O5 S . Na
Molecular Weight (MW): 393.60, 22.99
Fragment BRN (FBRN): 6224420, 3587169
Lawson Number (LN): 2770, 514, 377
Compound Type (CTYPE): acyclic
Constitution ID (CONSID): 5470304
Tautomer ID (TAUTID): 5973514
Beilstein Citation (BSO): 6-04
Entry Date (DED): 1993/10/20
Update Date (DUPD): 1993/10/20

CM 1

FBRN 6224420
FMF C20 H41 O5 S



CM 2

FBRN 3587169
FMF Na

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
LLSM	Liquid/Liquid System (MCS)	1
NMR	Nuclear Magnetic Resonance	2

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

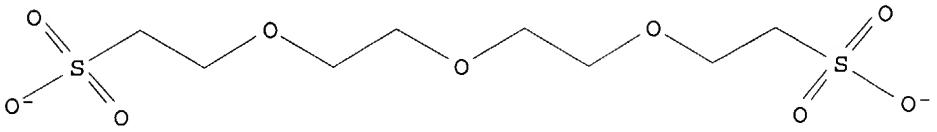
L21 ANSWER 6 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 4834618
Beilstein Pref. RN (BPR): 135456-44-9
CAS Reg. No. (RN): 135456-44-9
Chemical Name (CN): Disodium 3,6,9-trioxaundecane-1,11-disulfonate

Lin. Struct. Formula (LSF):	C8H16O9S2(2-)*2Na(1+)
Fragm. Molec. Formula (FMF):	C8 H16 O9 S2 , Na
Molecular Formula (MF):	C8 H16 O9 S2 . 2 Na
Molecular Weight (MW):	320.33, 22.99
Fragment BRN (FBRN):	4819104, 3587169
Lawson Number (LN):	2770, 514
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	4350668
Tautomer ID (TAUTID):	4684488
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1992/07/20
Update Date (DUPD):	1992/12/09

CM 1

FBRN 4819104
FMF C8 H16 O9 S2



CM 2

FBRN 3587169
FMF Na

Field Availability:

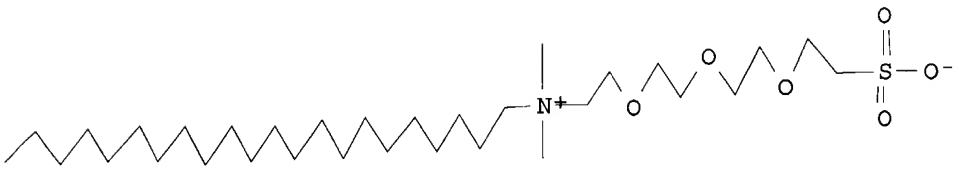
Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXREA	Substance is Reaction Reactant	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 7 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	4601791
Molec. Formula (MF):	C32 H67 N O6 S
Molecular Weight (MW):	593.94
Lawson Number (LN):	3122, 2942, 2817, 2770, 514
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	4192035
Tautomer ID (TAUTID):	4487514
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1991/12/02
Update Date (DUPD):	1991/12/02

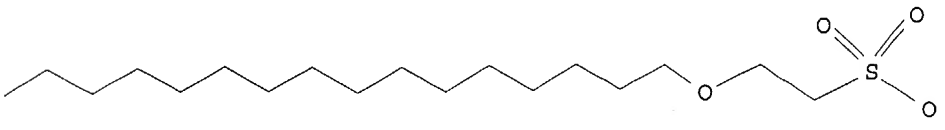


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	5
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
MS	Mass Spectrum	1

L21 ANSWER 8 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	4449289
Beilstein Pref. RN (BPR):	83635-03-4
CAS Reg. No. (RN):	83635-03-4
Chemical Name (CN):	2-hexadecyloxy-ethanesulfonic acid
Autonom Name (AUN):	2-hexadecyloxy-ethanesulfonic acid
Molec. Formula (MF):	C18 H38 O4 S
Molecular Weight (MW):	350.56
Lawson Number (LN):	2770, 376
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	4035885
Tautomer ID (TAUTID):	4314793
Beilstein Citation (BSO):	6-04
Entry Date (DED):	1991/12/02
Update Date (DUPD):	1993/02/15



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

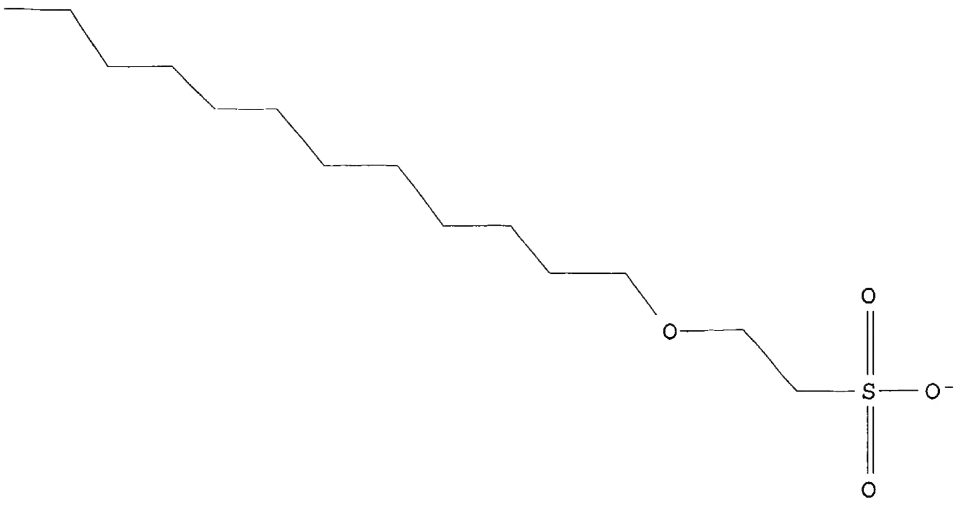
Code	Name	Occurrence
RX	Reaction Documents	3
RXPRO	Substance is Reaction Product	3

L21 ANSWER 9 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 3772596
Beilstein Pref. RN (BPR): 20829-85-0
CAS Reg. No. (RN): 20829-85-0
Chemical Name (CN): 2-dodecyloxy-ethanesulfonic acid ; sodium-salt
Lin. Struct. Formula (LSF): C14H29O4S(1-)*Na(1+)
Fragm. Molec. Formula (FMF): C14 H29 O4 S , Na
Molecular Formula (MF): C14 H29 O4 S . Na
Molecular Weight (MW): 293.44, 22.99
Fragment BRN (FBRN): 3671578, 3587169
Lawson Number (LN): 2770, 380
Compound Type (CTYPE): acyclic
Constitution ID (CONSID): 3402521
Tautomer ID (TAUTID): 3640971
Beilstein Citation (BSO): 4-04-00-00084, 6-04
Entry Date (DED): 1991/02/26
Update Date (DUPD): 1994/04/18

CM 1

FBRN 3671578
FMF C14 H29 O4 S



CM 2

FBRN 3587169
FMF Na

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
LSF	Linearized Structure Formula	1
FMF	Fragment Molecular Formula	2
MF	Molecular Formula	1
FW	Formular Weight	2
FBRN	Fragment BRN	2
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	2
ED	Entry Date	1
UPD	Update Date	1
BSPM	Boundary Surface Phenomena (MCS)	1
OTHE	Other Thermochemical Data	1

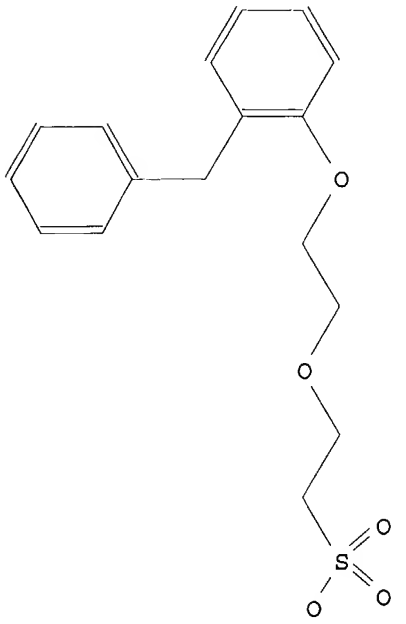
This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXPRO	Substance is Reaction Product	2

L21 ANSWER 10 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 3460906
Chemical Name (CN): 2-<2-(2-benzyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN): 2-<2-(2-benzyl-phenoxy)-ethoxy>-

	ethanesulfonic acid
Molec. Formula (MF):	C17 H20 O5 S
Molecular Weight (MW):	336.40
Lawson Number (LN):	5520, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3061860
Tautomer ID (TAUTID):	3297276
Beilstein Citation (BSO):	3-06-00-03350
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13



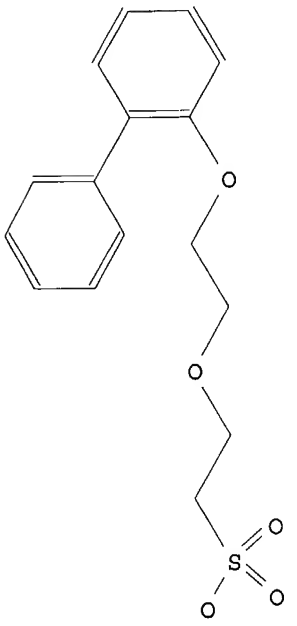
Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

L21 ANSWER 11 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3431383
Chemical Name (CN):	2-(2-biphenyl-2-yloxy-ethoxy)-ethanesulfonic acid

Autonom Name (AUN):	2-<2-(biphenyl-2-yloxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C16 H18 O5 S
Molecular Weight (MW):	322.38
Lawson Number (LN):	5519, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3055613
Tautomer ID (TAUTID):	3293053
Beilstein Citation (BSO):	3-06-00-03289
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13



Field Availability:

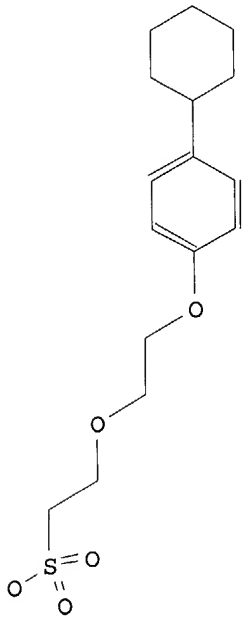
Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

L21 ANSWER 12 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3430258
Chemical Name (CN):	2-<2-(4-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(4-cyclohexyl-phenoxy)-ethoxy>-

ethanesulfonic acid

Molec. Formula (MF):	C16 H24 O5 S
Molecular Weight (MW):	328.42
Lawson Number (LN):	5375, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3076158
Tautomer ID (TAUTID):	3303113
Beilstein Citation (BSO):	3-06-00-02506
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13



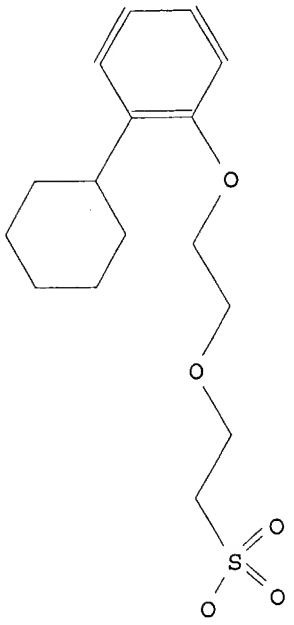
Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	2

L21 ANSWER 13 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3413152
Chemical Name (CN):	2-<2-(2-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(2-cyclohexyl-phenoxy)-ethoxy>-ethanesulfonic acid

Molec. Formula (MF):	C16 H24 O5 S
Molecular Weight (MW):	328.42
Lawson Number (LN):	5375, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3078299
Tautomer ID (TAUTID):	3301960
Beilstein Citation (BSO):	3-06-00-02495
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13



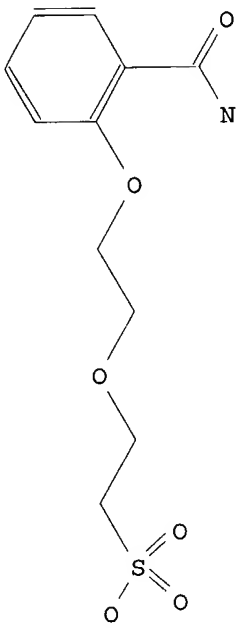
Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	2

L21 ANSWER 14 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3387108
Chemical Name (CN):	2-<2-(2-carbamoyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(2-carbamoyl-phenoxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C11 H15 N O6 S

Molecular Weight (MW):	289.30
Lawson Number (LN):	11694, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3019252
Tautomer ID (TAUTID):	3245637
Beilstein Citation (BSO):	4-10-00-00179
Entry Date (DED):	1990/02/15
Update Date (DUPD):	1992/08/05



Field Availability:

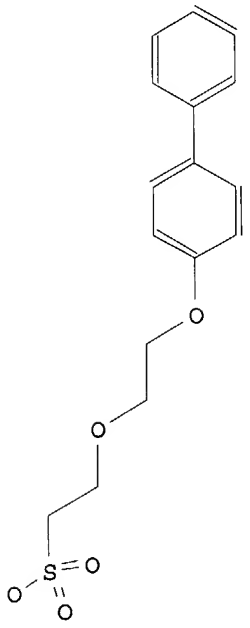
Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1
MP	Melting Point	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 15 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3383561
Chemical Name (CN):	2-(2-biphenyl-4-yloxy-ethoxy)-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(biphenyl-4-yloxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C16 H18 O5 S
Molecular Weight (MW):	322.38
Lawson Number (LN):	5519, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3020570
Tautomer ID (TAUTID):	3230372
Beilstein Citation (BSO):	3-06-00-03326
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13

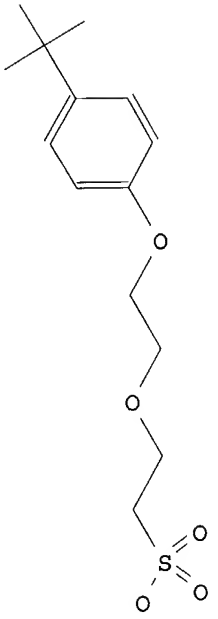


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

L21 ANSWER 16 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3370642
Chemical Name (CN):	2-<2-(4-tert-butyl-phenoxy)-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(4-tert-butyl-phenoxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C14 H22 O5 S
Molecular Weight (MW):	302.38
Lawson Number (LN):	5250, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3007799
Tautomer ID (TAUTID):	3223364
Beilstein Citation (BSO):	3-06-00-01868
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13

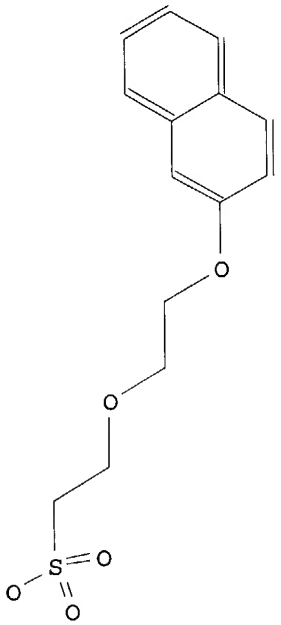


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

L21 ANSWER 17 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	3365156
Chemical Name (CN):	2-(2-<2>naphthyloxy-ethoxy)-ethanesulfonic acid
Autonom Name (AUN):	2-<2-(naphthalen-2-yloxy)-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C14 H16 O5 S
Molecular Weight (MW):	296.34
Lawson Number (LN):	5509, 2770, 514
Compound Type (CTYPE):	isocyclic
Constitution ID (CONSID):	3011870
Tautomer ID (TAUTID):	3224531
Beilstein Citation (BSO):	3-06-00-02978
Entry Date (DED):	1992/10/13
Update Date (DUPD):	1992/10/13

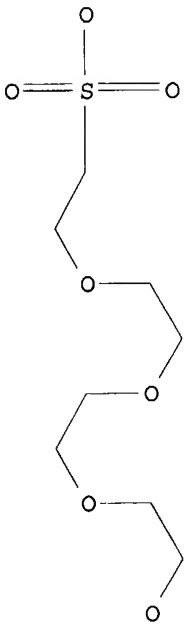


Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
CDER	Chemical Derivative	1

L21 ANSWER 18 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	2107273
Chemical Name (CN):	2-<2-<2-(2-hydroxy-ethoxy)-ethoxy>-ethoxy>-ethanesulfonic acid
Autonom Name (AUN):	2-<2-<2-(2-hydroxy-ethoxy)-ethoxy>-ethoxy>-ethanesulfonic acid
Molec. Formula (MF):	C8 H18 O7 S
Molecular Weight (MW):	258.29
Lawson Number (LN):	2770, 514
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	1954646
Tautomer ID (TAUTID):	2070674
Beilstein Citation (BSO):	5-04
Entry Date (DED):	1989/06/29
Update Date (DUPD):	1992/04/28



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1
BP	Boiling Point	1
CDER	Chemical Derivative	1

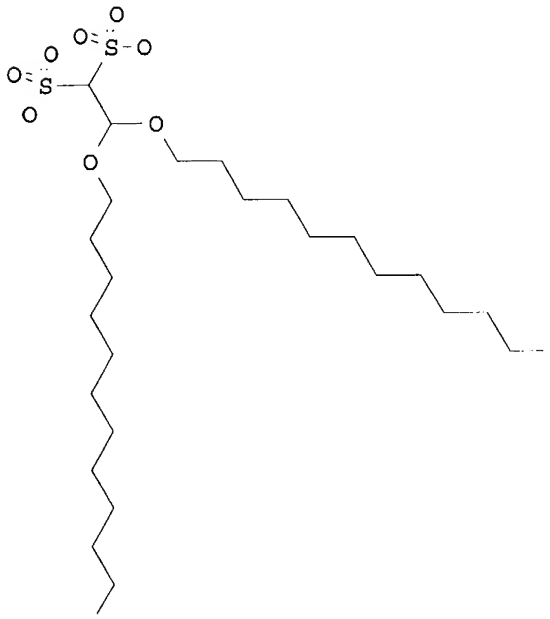
This substance also occurs in Reaction Documents:

Code	Name	Occurrence

RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 19 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	1813834
Chemical Name (CN):	2,2-bis-dodecyloxy-ethane-1,1-disulfonic acid
Autonom Name (AUN):	2,2-bis-dodecyloxy-ethane-1,1-disulfonic acid
Molec. Formula (MF):	C26 H54 O8 S2
Molecular Weight (MW):	558.83
Lawson Number (LN):	874, 380
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	1740821
Tautomer ID (TAUTID):	1818910
Beilstein Citation (BSO):	3-01-00-03084
Entry Date (DED):	1989/02/27
Update Date (DUPD):	1992/06/02



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1

BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 20 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	1801348
Beilstein Pref. RN (BPR):	117330-72-0
CAS Reg. No. (RN):	117330-72-0
Chemical Name (CN):	2-octadecyloxy-ethanesulfonic acid
Autonom Name (AUN):	2-octadecyloxy-ethanesulfonic acid
Molec. Formula (MF):	C20 H42 O4 S
Molecular Weight (MW):	378.61
Lawson Number (LN):	2770, 378
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	1731117
Tautomer ID (TAUTID):	1806067
Beilstein Citation (BSO):	3-04-00-00043
Entry Date (DED):	1989/02/27
Update Date (DUPD):	1992/06/02

Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1

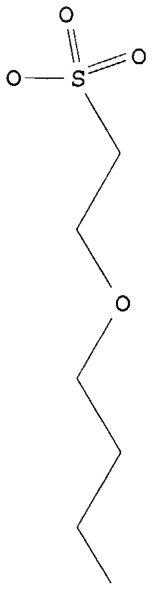
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 21 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	1766811
Beilstein Pref. RN (BPR):	83635-04-5
CAS Reg. No. (RN):	83635-04-5
Chemical Name (CN):	2-butoxy-ethanesulfonic acid
Autonom Name (AUN):	2-butoxy-ethanesulfonic acid
Molec. Formula (MF):	C6 H14 O4 S
Molecular Weight (MW):	182.23
Lawson Number (LN):	2770, 316
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	1591950
Tautomer ID (TAUTID):	1700605
Beilstein Citation (BSO):	3-04-00-00043, 6-04
Entry Date (DED):	1989/02/27
Update Date (DUPD):	1993/02/15



Field Availability:

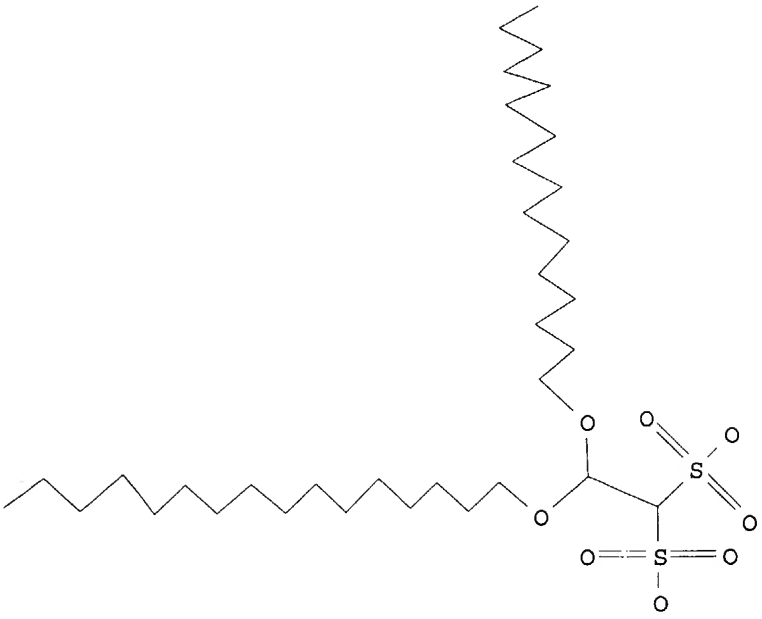
Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	2
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXPRO	Substance is Reaction Product	2

L21 ANSWER 22 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	1718111
Chemical Name (CN):	2,2-bis-hexadecyloxy-ethane-1,1-disulfonic acid
Autonom Name (AUN):	2,2-bis-hexadecyloxy-ethane-1,1-disulfonic acid
Molec. Formula (MF):	C34 H70 O8 S2
Molecular Weight (MW):	671.04
Lawson Number (LN):	874, 376
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	1650074
Tautomer ID (TAUTID):	1730901
Beilstein Citation (BSO):	3-01-00-03084
Entry Date (DED):	1989/02/27
Update Date (DUPD):	1991/09/20



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

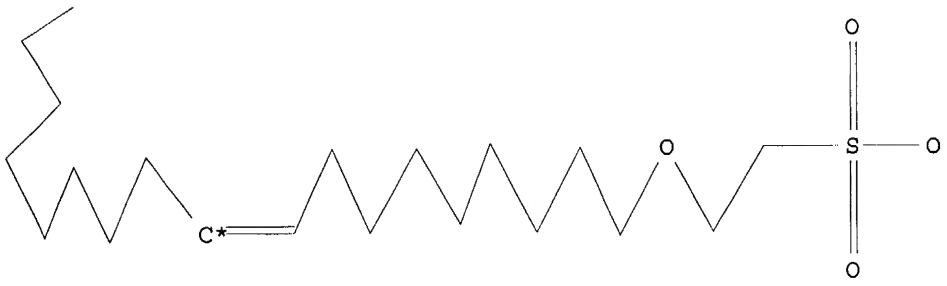
This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

L21 ANSWER 23 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	1715107
Beilstein Pref. RN (BPR):	120256-31-7
CAS Reg. No. (RN):	120256-31-7
Chemical Name (CN):	2-octadec-9-enyloxy-ethanesulfonic acid
Autonom Name (AUN):	2-octadec-9-enyloxy-ethanesulfonic acid
Molec. Formula (MF):	C20 H40 O4 S
Molecular Weight (MW):	376.59
Lawson Number (LN):	2770, 466
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	1646612
Tautomer ID (TAUTID):	1728092
Beilstein Citation (BSO):	3-04-00-00043

Entry Date (DED): 1989/02/27
Update Date (DUPD): 1992/05/13



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
BPR	Beilstein Preferred RN	1
RN	CAS Registry Number	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	2
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
BSO	Beilstein Citation	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	2
RXPRO	Substance is Reaction Product	2

=> d frxpro 21

L21 ANSWER 21 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX
Reaction ID (.ID): 2631420
Reactant BRN (.RBRN): 4621825
Reactant (.RCT): C8H19NO3S*C2H6O4S
Product BRN (.PBRN): 1766811, 4375698
Product (.PRO): 2-butoxy-ethanesulfonic acid,
2-hydroxy-ethanesulfonic acid butyl ester
No. of React. Details (.NVAR): 3

Reaction Details:
RX
Reaction RID (.RID): 2631420.1
Reaction Classification (.CL): Preparation

```
     Yield (.YDT):                    5 percent Spectr. (BRN=1766811), 55
                                      percent Spectr (BRN=4375698)
     Solvent (.SOL):                  toluene
     Time (.TIM):                     1 hour(s)
     Temperature (.T):                110 Cel
     Note(s) (.COM):                  Title compound not separated from
                                      byproducts
     Reference(s):
     1. King, J. F.; Loosmore, S. M.; Aslam. M.; Lock, J. D.; McGarrity, M. J.,
        J.Amer.Chem.Soc., CODEN: JACSAT, 104(25), <1982>, 7108-7122;
        BABS-5691951
RX
     Reaction RID (.RID):             2631420.2
     Reaction Classification (.CL):   Preparation
     Yield (.YDT):                    55 percent (BRN=4375698)
     Solvent (.SOL):                  toluene
     Time (.TIM):                     1 hour(s)
     Other Conditions (.COND):        Heating
     Note(s) (.COM):                  Yield given
     Reference(s):
     1. King, J. F.; Aslam, M., Tetrahedron Lett., CODEN: TELEAY, 22(37),
        <1981>, 3573-3576; BABS-5545525
RX
     Reaction RID (.RID):             2631420.3
     Reaction Classification (.CL):   Preparation
     Yield (.YDT):                    55 percent (BRN=4375698)
     Solvent (.SOL):                  toluene
     Time (.TIM):                     1 hour(s)
     Other Conditions (.COND):        Heating
     Reference(s):
     1. King, J. F.; Aslam, M., Tetrahedron Lett., CODEN: TELEAY, 22(37),
        <1981>, 3573-3576; BABS-5545525

Reaction:
RX
     Reaction ID (.ID):               845013
     Reactant BRN (.RBRN):            1751214, 969148
     Reactant (.RCT):                 2-hydroxy-ethanesulfonic acid, butan-1-ol
     Product BRN (.PBRN):             1766811
     Product (.PRO):                  2-butoxy-ethanesulfonic acid
     No. of React. Details (.NVAR):   1

Reaction Details:
RX
     Reaction RID (.RID):             845013.1
     Reaction Classification (.CL):   Preparation
     Temperature (.T):                170 - 180 Cel
     Note(s) (.COM):                  Handbook
     Reference(s):
     1. Patent: I.G. Farbenind. CH 157237 1931
     2. Patent: Gen. Aniline Works FR 715585
     3. Patent: Gen. Aniline Works US 1985747 1931


=> d frxpro 20


L21  ANSWER 20 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX
     Reaction ID (.ID):               131645
     Reactant BRN (.RBRN):            1362907, 1788922
     Reactant (.RCT):                 octadecan-1-ol, 2-sulfooxy-ethanesulfonic
```

```
                                    acid
     Product BRN (.PBRN):           1801348
     Product (.PRO):                2-octadecyloxy-ethanesulfonic acid
     No. of React. Details (.NVAR): 1

Reaction Details:
RX
     Reaction RID (.RID):           131645.1
     Reaction Classification (.CL): Preparation
     Temperature (.T):              40 - 50 Cel
     Note(s) (.COM):                Handbook
     Reference(s):
     1. Patent: Gen. Aniline Works FR 715585
     2. Patent: Gen. Aniline Works US 1985747 1931
     3. Patent: I.G. Farbenind. DE 649993 1930, Fortschr.Teerfarbenfabr.Verw.In
        dustriezweige, 22, 1309


=> d frxpro 18


L21  ANSWER 18 OF 23 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX
     Reaction ID (.ID):             7293752
     Product BRN (.PBRN):           2107273
     Product (.PRO):                2-<2-<2-(2-hydroxy-ethoxy)-ethoxy>-ethoxy>-
                                    ethanesulfonic acid
     No. of React. Details (.NVAR): 1

Reaction Details:
RX
     Reaction RID (.RID):           7293752.1
     Reaction Classification (.CL): Preparation (half reaction)
     Reference(s):
     1. Patent: Emery Ind. US 3823185 1974, Chem.Abstr., 82(3789)


=>
Uploading C:\Program Files\Stnexp\Queries\10690467.str

L22      STRUCTURE UPLOADED

=> d
L22 HAS NO ANSWERS
L22              STR
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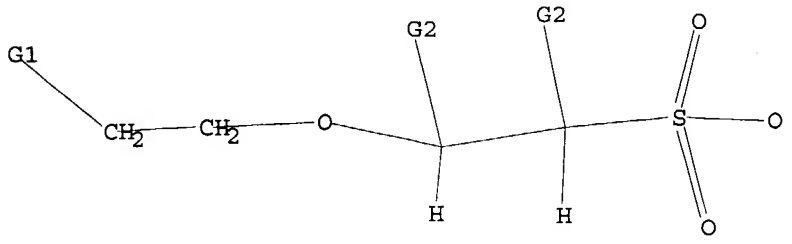


```
G1 C,O,Cb
G2 Me,Et,n-Pr,i-Pr,H


Structure attributes must be viewed using STN Express query preparation.
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=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                          ENTRY    SESSION
FULL ESTIMATED COST                                      424.74     742.60

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)              SINCE FILE      TOTAL
                                                          ENTRY    SESSION
CA SUBSCRIBER PRICE                                        0.00      -5.54

FILE 'REGISTRY' ENTERED AT 08:43:46 ON 18 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2004 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   17 MAY 2004  HIGHEST RN 682740-60-9
DICTIONARY FILE UPDATES:  17 MAY 2004  HIGHEST RN 682740-60-9

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> s l22
SAMPLE SEARCH INITIATED 08:43:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   1609 TO ITERATE

 62.2% PROCESSED    1000 ITERATIONS                              14 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.03

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:        29774 TO    34586
PROJECTED ANSWERS:             166 TO      734

L23          14 SEA SSS SAM L22

=> d scan

L23  14 ANSWERS   REGISTRY  COPYRIGHT 2004 ACS on STN
IN   3,6,9,12,15-Pentaoxaheptadecane-1-sulfonic acid, 17-(nonylphenoxy)-,
     sodium salt (9CI)
MF   C27 H48 O9 S . Na
CI   IDS
```

PAGE 1-A

D1— $(CH_2)_8$ — Me

D1—O— CH_2— CH_2— O— CH_2— CH_2— O— CH_2— CH_2— O— CH_2— CH_2— O— CH_2— CH_2— O—

● Na

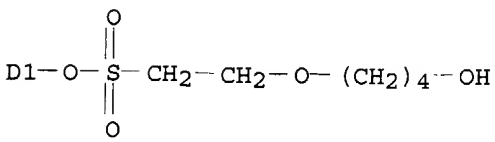
PAGE 1-B

— CH_2— CH_2— SO_3H

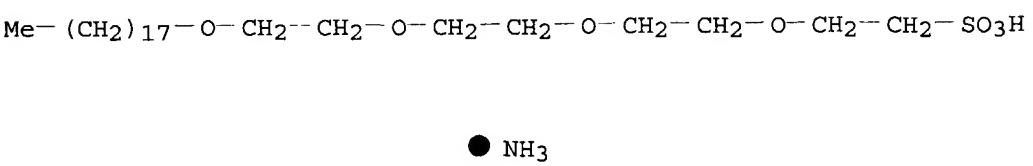
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(4-hydroxybutoxy)-, tolyl ester (7CI)
MF C13 H20 O5 S
CI IDS

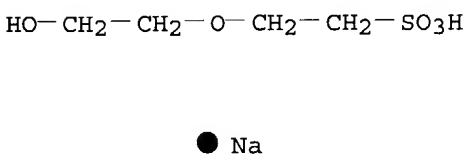
D1 Me



L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 3,6,9,12-Tetraoxatriacontane-1-sulfonic acid, ammonium salt (9CI)
MF C26 H54 O7 S . H3 N

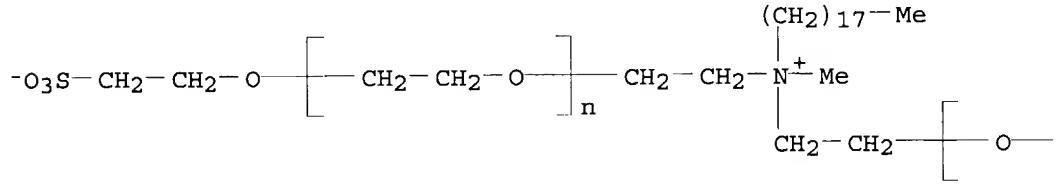


L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-(2-hydroxyethoxy)-, monosodium salt (9CI)
MF C4 H10 O5 S . Na
CI COM

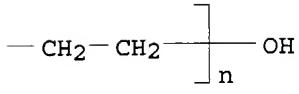


L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α,α'-[(methyloctadecyliminio)di-2,1-ethanediyl]bis[ω-hydroxy-ω'-(2-sulfoethoxy)-, inner salt (9CI)
MF (C2 H4 O)n (C2 H4 O)n C25 H53 N O5 S
CI PMS

PAGE 1-A

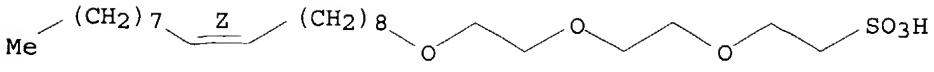


PAGE 1-B



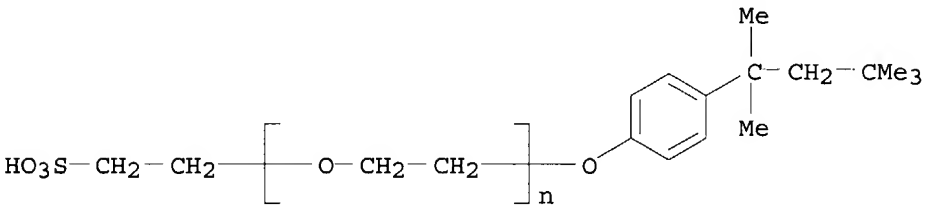
L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-[2-[2-(9-octadecenyloxy)ethoxy]ethoxy]-, sodium salt, (Z)- (9CI)
MF C24 H48 O6 S . Na

Double bond geometry as shown.



● Na

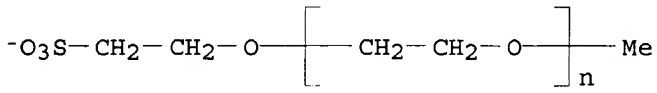
L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α-(2-sulfoethyl)-ω-[4-(1,1,3,3-tetramethylbutyl)phenoxy]-, sodium salt (9CI)
MF (C2 H4 O)n C16 H26 O4 S . Na
CI PMS



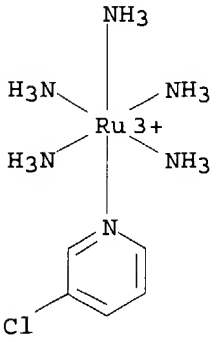
● Na

L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ruthenium(3+), pentaammine(3-chloropyridine-κN)-, (OC-6-22)-, (OC-6-22)-pentaammine(3-chloropyridine-κN)ruthenium(2+) salt with α-methyl-ω-(2-sulfoethoxy)poly(oxy-1,2-ethanediyl) (1:5) (9CI)
MF C5 H19 Cl N6 Ru . C5 H19 Cl N6 Ru . 5 (C2 H4 O)n C3 H7 O4 S

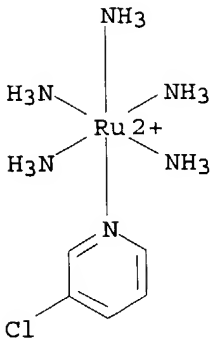
CM 1



CM 2

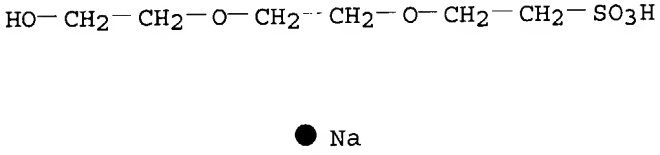


CM 3

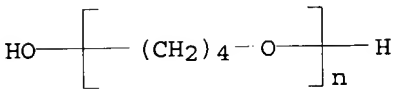


L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1,4-Benzenedicarboxylic acid, polymer with 1,2-ethanediol, α-hydro-ω-hydroxypoly(oxy-1,4-butanediyl) and 2-[2-(2-hydroxyethoxy)ethoxy]ethanesulfonic acid monosodium salt (9CI)
MF (C8 H6 O4 . C6 H14 O6 S . (C4 H8 O)n H2 O . C2 H6 O2 . Na)x
CI PMS

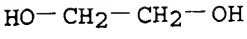
CM 1



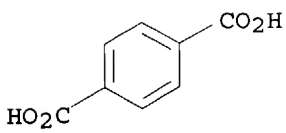
CM 2



CM 3

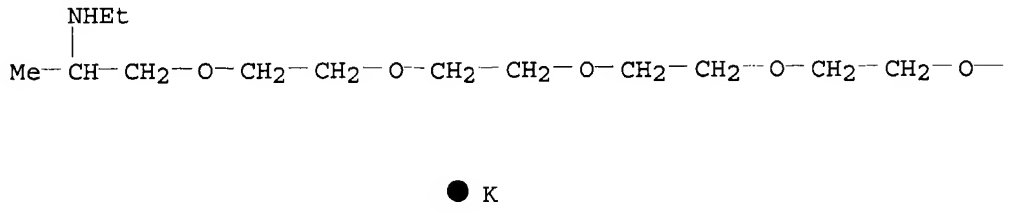


CM 4

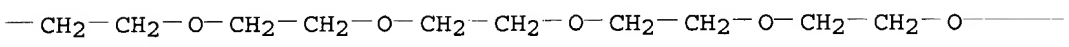


L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 3,6,9,12,15,18,21,24,27,30,33-Undecaoxa-36-azaoctatriacontane-1-sulfonic acid, 35-methyl-, monopotassium salt (9CI)
MF C27 H57 N O14 S . K

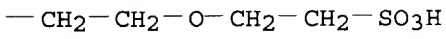
PAGE 1-A



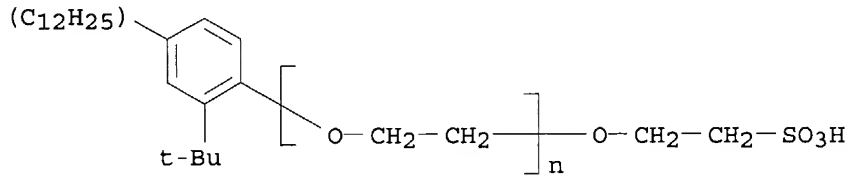
PAGE 1-B



PAGE 1-C



L23 14 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Poly(oxy-1,2-ethanediyl), α-[2-(1,1-dimethylethyl)-4-tetrapropylenephenyl]-ω-(2-sulfoethoxy)-, sodium salt (9CI)
MF (C2 H4 O)n C24 H42 O4 S . Na
CI IDS, PMS



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

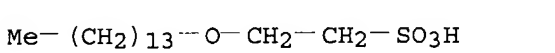
=> d his

(FILE 'HOME' ENTERED AT 07:45:54 ON 18 MAY 2004)

FILE 'REGISTRY' ENTERED AT 07:46:04 ON 18 MAY 2004
L1 8 S BOROXINE
L2 0 S BIS AZINYL
L3 6 S AZINYL

```
L4       285790 S 1-6
L5              STRUCTURE UPLOADED
L6           14 S L5
L7          480 S L5 FULL
L8          279 S L7 NOT PMS/CI
L9            1 S ISETHIONIC ACID/CN
L10         229 S L8 NOT N/ELS
L11          46 S L10 AND 4/O
L12          41 S L11 NOT X/ELS
L13          43 S L11 NOT FE/ELS
L14          38 S L12 NOT FE/ELS
L15          36 S L14 NOT TOLYL ESTER
L16          30 S L15 NOT PHENYL ESTER
L17          27 S L16 NOT XYLYL ESTER

     FILE 'CAPLUS' ENTERED AT 08:26:52 ON 18 MAY 2004
L18           8 S L17/PREP

     FILE 'BEILSTEIN' ENTERED AT 08:32:55 ON 18 MAY 2004
L19          35 S L5 FULL
L20          23 S L19 NOT ESTER
L21          23 S L20 NOT PHENYL?
L22             STRUCTURE UPLOADED

     FILE 'REGISTRY' ENTERED AT 08:43:46 ON 18 MAY 2004
L23          14 S L22

=> s l22 full
FULL SEARCH INITIATED 08:44:30 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  31995 TO ITERATE

100.0% PROCESSED   31995 ITERATIONS                              480 ANSWERS
SEARCH TIME: 00.00.02

L24         480 SEA SSS FUL L22

=> d his

     (FILE 'HOME' ENTERED AT 07:45:54 ON 18 MAY 2004)

     FILE 'REGISTRY' ENTERED AT 07:46:04 ON 18 MAY 2004
L1            8 S BOROXINE
L2            0 S BIS AZINYL
L3            6 S AZINYL
L4       285790 S 1-6
L5              STRUCTURE UPLOADED
L6           14 S L5
L7          480 S L5 FULL
L8          279 S L7 NOT PMS/CI
L9            1 S ISETHIONIC ACID/CN
L10         229 S L8 NOT N/ELS
L11          46 S L10 AND 4/O
L12          41 S L11 NOT X/ELS
L13          43 S L11 NOT FE/ELS
L14          38 S L12 NOT FE/ELS
L15          36 S L14 NOT TOLYL ESTER
L16          30 S L15 NOT PHENYL ESTER
L17          27 S L16 NOT XYLYL ESTER

     FILE 'CAPLUS' ENTERED AT 08:26:52 ON 18 MAY 2004
L18           8 S L17/PREP

     FILE 'BEILSTEIN' ENTERED AT 08:32:55 ON 18 MAY 2004
L19          35 S L5 FULL
```

```
L20           23 S L19 NOT ESTER
L21           23 S L20 NOT PHENYL?
L22              STRUCTURE UPLOADED

     FILE 'REGISTRY' ENTERED AT 08:43:46 ON 18 MAY 2004
L23           14 S L22
L24          480 S L22 FULL

=> s l5 not l24
L24 MAY NOT BE USED HERE
The L-number entered was not created by a STRUCTURE or SCREEN command.

=> s l7 not l24
L25           0 L7 NOT L24

=> s l24 not x/els
       7410517 X/ELS
L26         433 L24 NOT X/ELS

=> s l26 not ester
       4115867 ESTER
          4892 ESTERS
       4120529 ESTER
                  (ESTER OR ESTERS)
L27         357 L26 NOT ESTER

=> s l27 not pms/ci
       1010338 PMS/CI
L28         202 L27 NOT PMS/CI

=> d scan

L28  202 ANSWERS   REGISTRY  COPYRIGHT 2004 ACS on STN
IN   Ethanesulfonic acid, 2-(tetradecyloxy)- (9CI)
MF   C16 H34 O4 S
```



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**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>
Uploading C:\Program Files\Stnexp\Queries\10690467.str

L29     STRUCTURE UPLOADED

=> d
L29 HAS NO ANSWERS
L29             STR
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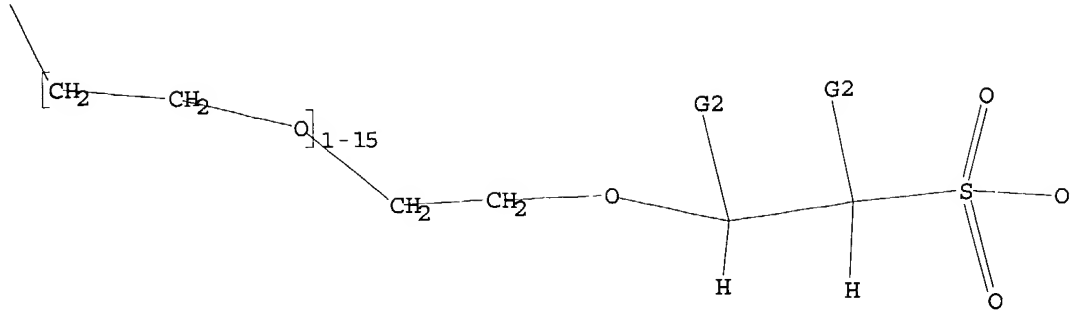

G1 C,O,Cb

G2 Me,Et,n-Pr,i-Pr,H

Structure attributes must be viewed using STN Express query preparation.

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=> s l29
SAMPLE SEARCH INITIATED 08:47:06 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -    536 TO ITERATE

100.0% PROCESSED     536 ITERATIONS                                3 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         9331 TO    12109
PROJECTED ANSWERS:               3 TO      163

L30            3 SEA SSS SAM L29

=> s l29 full
FULL SEARCH INITIATED 08:47:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -  10376 TO ITERATE

100.0% PROCESSED   10376 ITERATIONS                               53 ANSWERS
SEARCH TIME: 00.00.01

L31           53 SEA SSS FUL L29

=> s l31 not pms/ci
       1010338 PMS/CI
L32           36 L31 NOT PMS/CI

=> s l32 not x/els
       7410517 X/ELS
L33           36 L32 NOT X/ELS

=> s l33 not ester
       4115867 ESTER
          4892 ESTERS
       4120529 ESTER
                 (ESTER OR ESTERS)
L34           35 L33 NOT ESTER

=> d scna
'SCNA' IS NOT A VALID FORMAT FOR FILE 'REGISTRY'

The following are valid formats:

Substance information can be displayed by requesting individual
```

fields or predefined formats. The predefined substance formats are: (RN = CAS Registry Number)

REG - RN
SAM - Index Name, MF, and structure - no RN
FIDE - All substance data, except sequence data
IDE - FIDE, but only 50 names
SQIDE - IDE, plus sequence data
SQIDE3 - Same as SQIDE, but 3-letter amino acid codes are used
SQD - Protein sequence data, includes RN
SQD3 - Same as SQD, but 3-letter amino acid codes are used
SQN - Protein sequence name information, includes RN

CALC - Table of calculated properties
EPROP - Table of experimental properties
PROP - EPROP and CALC

Any CA File format may be combined with any substance format to obtain CA references citing the substance. The substance formats must be cited first. The CA File predefined formats are:

ABS -- Abstract
APPS -- Application and Priority Information
BIB -- CA Accession Number, plus Bibliographic Data
CAN -- CA Accession Number
CBIB -- CA Accession Number, plus Bibliographic Data (compressed)
IND -- Index Data
IPC -- International Patent Classification
PATS -- PI, SO
STD -- BIB, IPC, and NCL

IABS --ABS, indented, with text labels
IBIB -- BIB, indented, with text labels
ISTD -- STD format, indented

OBIB -------- AN, plus Bibliographic Data (original)
OIBIB ------- OBIB, indented with text labels

SBIB -------- BIB, no citations
SIBIB ------- IBIB, no citations

The ALL format gives FIDE BIB ABS IND RE, plus sequence data when it is available.
The MAX format is the same as ALL.
The IALL format is the same as ALL with BIB ABS and IND indented, with text labels.

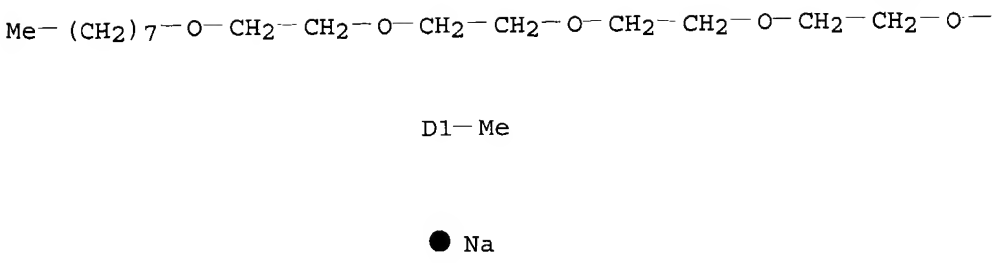
For additional information, please consult the following help messages:

HELP DFIELDS -- To see a complete list of individual display fields.
HELP FORMATS -- To see detailed descriptions of the predefined formats.
ENTER DISPLAY FORMAT (IDE):end

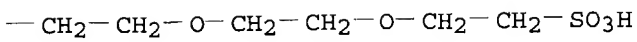
=> d scan

L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 3,6,9,12,15,18,21-Heptaoxanonacosane-1-sulfonic acid, 1(or 2)-methyl deriv., sodium salt (9CI)
MF C23 H48 O10 S . Na
CI IDS

PAGE 1-A



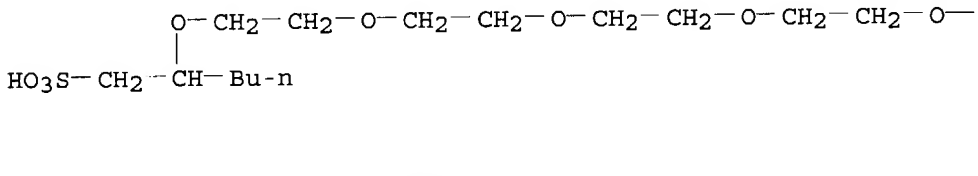
PAGE 1-B



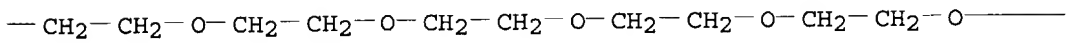
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 3,6,9,12,15,18,21,24,27,30,33-Undecaoxahenpentacontane-1-sulfonic acid, 2-butyl-, sodium salt (8CI)
MF C44 H90 O14 S . Na

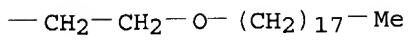
PAGE 1-A



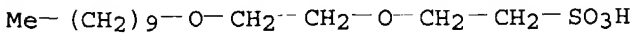
PAGE 1-B



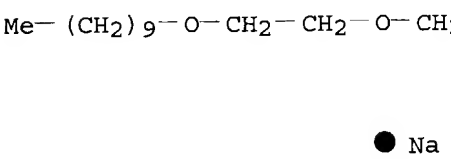
PAGE 1-C



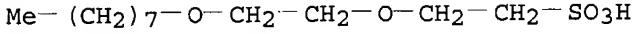
L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-[2-(decyloxy)ethoxy]-, sodium salt (9CI)
MF C14 H30 O5 S . Na



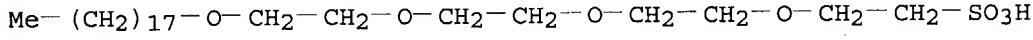
L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-[2-[2-(decyloxy)ethoxy]ethoxy]-, sodium salt (9CI)
MF C16 H34 O6 S . Na



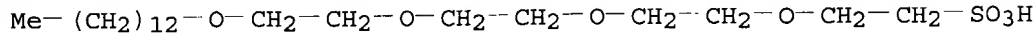
L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-[2-(octyloxy)ethoxy]-, sodium salt (9CI)
MF C12 H26 O5 S . Na



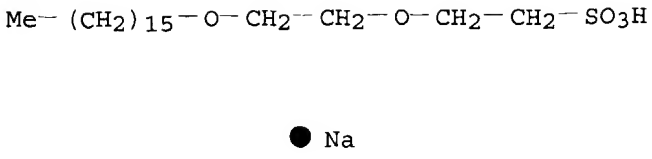
L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 3,6,9,12-Tetraoxatriacontane-1-sulfonic acid, ammonium salt (9CI)
MF C26 H54 O7 S . H3 N



L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 3,6,9,12-Tetraoxapentacosane-1-sulfonic acid, sodium salt (9CI)
MF C21 H44 O7 S . Na

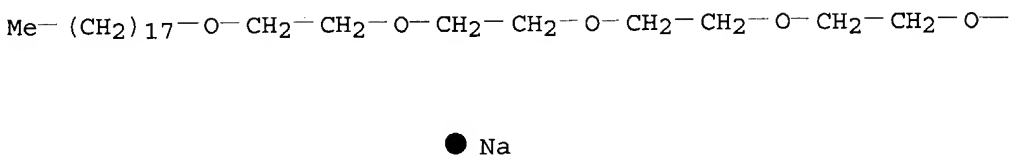


L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-[2-(hexadecyloxy)ethoxy]-, sodium salt (9CI)
MF C20 H42 O5 S . Na



L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 3,6,9,12,15,18,21-Heptaoxanonatriacontane-1-sulfonic acid, sodium salt (9CI)
MF C32 H66 O10 S . Na

PAGE 1-A



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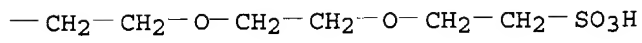
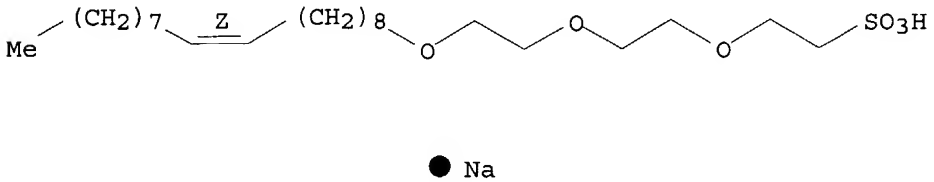


L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Ethanesulfonic acid, 2-[2-[2-(9-octadecenyloxy)ethoxy]ethoxy]-, sodium salt, (Z)- (9CI)
MF C24 H48 O6 S . Na

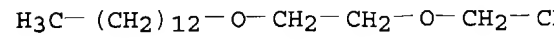
Double bond geometry as shown.



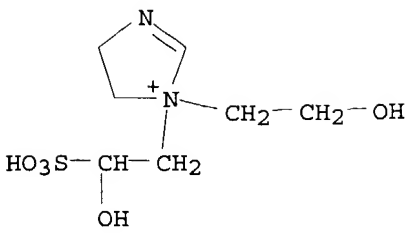
L34 35 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1H-Imidazolium, 4,5-dihydro-1-(2-hydroxyethyl)-1-(2-hydroxy-2-sulfoethyl)-, salt with 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethanesulfonic acid (1:1), monosodium salt (9CI)
MF C19 H39 O6 S . C7 H15 N2 O5 S . Na

CM 1

CM 2



CM 3



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

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        700679 IMIDAZOL?
L35   33 L34 NOT IMIDAZOL?

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	343.95	1086.55

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-5.54

FILE 'CAPLUS' ENTERED AT 08:48:11 ON 18 MAY 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 18 May 2004 VOL 140 ISS 21
FILE LAST UPDATED: 17 May 2004 (20040517/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s l35/prep
            45 L35
       3148620 PREP/RL
L36   6 L35/PREP
                (L35 (L) PREP/RL)

=> d ibib abs hitstr 1-6

L36 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1993:474954 CAPLUS
DOCUMENT NUMBER: 119:74954
TITLE: Aqueous dispersions of rosin for paper sizes
INVENTOR(S):   Shinoda, Junichi; Takayasu, Senju
PATENT ASSIGNEE(S):   Lion Corp, Japan

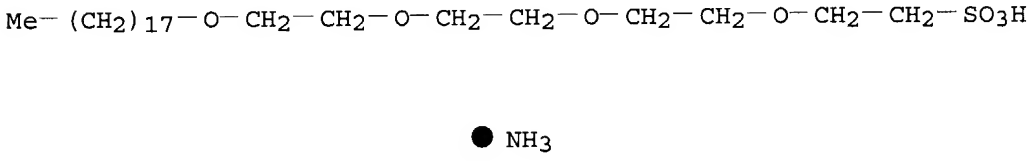
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 05033290	A2	19930209	JP 1991-208547	19910725

PRIORITY APPLN. INFO.: JP 1991-208547 19910725
OTHER SOURCE(S): MARPAT 119:74954

AB Title sizes, storage-stable and low-foaming with good sizing effects, comprise rosin and R(C6H4)mO(CH2CH2O)nCH2CH2SO3M (I; R = C8-22 linear or branched alkyl or alkenyl; C6H4 = phenylene; M = alkali metal, NH4; m = 0-1; n = 1-5) as dispersant. Thus, an aqueous dispersion with 50% solids of maleated tall-oil rosin and I (R = C9H19, m = 1 , n = 2, M = Na) (II) formed no precipitate when stored at 25° for 1 mo, paper made from a slurry of hardwood kraft pulp containing 0.2% of the size showed Stockigt sizing degree 8 s at 20° and 11 s at 50°, and a pulp slurry containing 0.1% of the size showed foaming 5 mL after 5 min and 15 mL after 10 min vs. 4 s, 7 s, 50 mL, and 85 mL, resp., for a control containing ethoxylated nonylphenol sulfate ester Na salt in place of II.

IT **148782-40-5P**
RL: IMF (Industrial manufacture); **PREP (Preparation)**
(dispersant, preparation of, rosin sizes containing, storage-stable, low-foaming, with good sizing effect, for paper)
RN 148782-40-5 CAPLUS
CN 3,6,9,12-Tetraoxatriacontane-1-sulfonic acid, ammonium salt (9CI) (CA INDEX NAME)

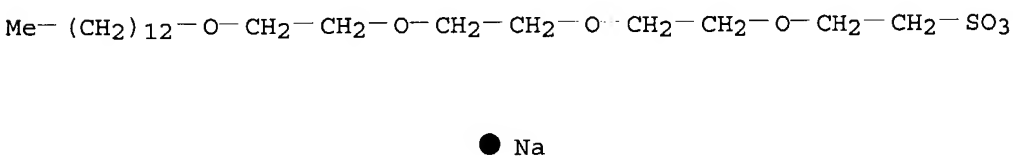


● NH_3

L36 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:515348 CAPLUS
DOCUMENT NUMBER: 115:115348
TITLE: Preparation of polyether sulfonates stable in aqueous alcohols of low temperature
INVENTOR(S): Greif, Norbert; Oppenlaender, Knut
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Eur. Pat. Appl., 5 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 419954	A1	19910403	EP 1990-117618	19900913
EP 419954	B1	19921202		
R: DE, FR, GB, SE				
DE 3931840	A1	19910404	DE 1989-3931840	19890923
NO 9004131	A	19910325	NO 1990-4131	19900921
NO 171062	B	19921012		
NO 171062	C	19930120		

PRIORITY APPLN. INFO.: DE 1989-3931840 19890923
OTHER SOURCE(S): MARPAT 115:115348
AB The title solns., useful as surfactants in tertiary oil recovery, have the structure R(OZ)nSO3M [M = alkali metal, NH4, protonated (hydroxy)alkylamine; R = alk(en)yl, alkylphenyl; Z = C2-4 1,2-alkylene; n = 1-15] and are prepared by the reaction of R(OZ)nX (X = Cl, Br) with aqueous alkali metal or ammonium sulfites. Heating C12H25C6H4(OCH2CH2)3Cl with aqueous Na2SO3 at 160°/3 bar gave a 27% aqueous solution of C12H25C6H4(OCH2CH2)3SO3Na containing 6.4% NaCl. Adding 194 g tech. pentanol to 500 g this solution at 95-98° with strong stirring gave 556 g organic phase containing 2.4% NaCl which was diluted with H2O to 30% surfactant to give a solution stable to storage at 5°.
IT **135865-25-7P**
RL: **PREP (Preparation)**
(cold-stable solns. in aqueous alcs., manufacture of)
RN 135865-25-7 CAPLUS
CN 3,6,9,12-Tetraoxapentacosane-1-sulfonic acid, sodium salt (9CI) (CA INDEX NAME)

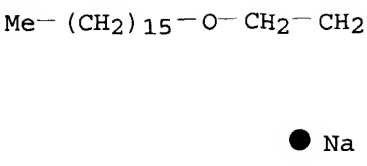


● Na

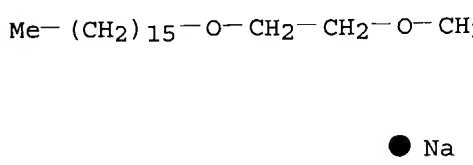
L36 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:442632 CAPLUS
DOCUMENT NUMBER: 111:42632
TITLE: Surfactant combinations and enhanced oil recovery method employing same
INVENTOR(S): Kalpakci, Bayram; Jeans, Yvonne
PATENT ASSIGNEE(S): Standard Oil Co., USA
SOURCE: U.S., 10 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4811788	A	19890314	US 1986-829431	19860213

PRIORITY APPLN. INFO.: US 1986-829431 19860213
AB A method of recovering oil from a subterranean formation comprises injection into the formation an aqueous composition containing a surface-active agent of (A) (H13C6)(H17C8)CHCH2(OCH2CH2)2SO3-Na+ and (B) H41C20(OCH2CH2)3SO3-Na+ at 0.02-7:1 B:A mol ratio. This method is especially suitable for use with formations where the surfactants used are exposed to temps. in the range of 15-120° and above, high pressures, high concns. of divalent metal ions and high salinities.
IT **121594-42-1P**
RL: **PREP (Preparation)**
(intermediate, preparation of, for preparation of hexyldecyloxyethoxyethoxyethane sulfonate surfactant, in enhanced petroleum recovery)
RN 121594-42-1 CAPLUS
CN Ethanesulfonic acid, 2-[2-(hexadecyloxy)ethoxy]-, sodium salt (9CI) (CA INDEX NAME)

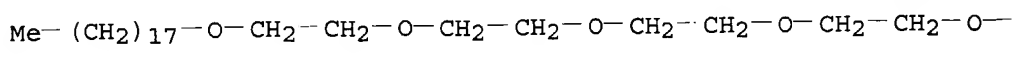


IT **121608-25-1P**
RL: **PREP (Preparation)**
(preparation of, surfactants containing, for enhanced petroleum recovery, by waterflooding)
RN 121608-25-1 CAPLUS
CN Ethanesulfonic acid, 2-[2-[2-(hexadecyloxy)ethoxy]ethoxy]-, sodium salt (9CI) (CA INDEX NAME)



L36 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1987:121857 CAPLUS
DOCUMENT NUMBER: 106:121857
TITLE: Purification of ethoxylated anionic surfactants by preparative high-performance liquid chromatography
AUTHOR(S): Hodgson, Philip K. G.; Stewart, Nevin J.
CORPORATE SOURCE: Res. Cent., British Pet. Co., Sunbury-on-Thames/Middlesex, TW16 7LN, UK
SOURCE: Journal of Chromatography (1987), 387, 546-50
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English
AB C18H37C6H4(OCH2CH2)7SO3Na [107317-25-9] was purified by the title reversed-phase method using 4:1 iso-PrOH-water containing 0.2% H3PO4 as an anal. system or 35:30:35 THF-MeOH-water as a preparative system. Nonionic precursor and anionic byproducts were removed, giving 100% surfactant from 10-20 g batches of crude product in <0.5 h.
IT **107317-25-9P**
RL: PUR (Purification or recovery); **PREP (Preparation)**
(purification of, by reversed-phase preparative high-performance liquid chromatog.)
RN 107317-25-9 CAPLUS
CN 3,6,9,12,15,18,21-Heptaoxanonatriacontane-1-sulfonic acid, sodium salt (9CI) (CA INDEX NAME)

PAGE 1-A



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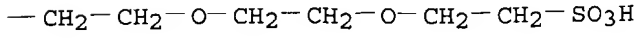
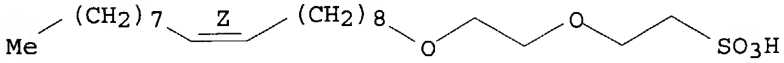


L36 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1984:474769 CAPLUS
DOCUMENT NUMBER: 101:74769
TITLE: Synthesis and performance of linear monoisomeric ethylene oxide sulfonate surfactants
AUTHOR(S): Carmona, I.; Schechter, R. S.; Wade, W. H.; Weerasooriya, U.; Weerasooriya, V.
CORPORATE SOURCE: Dep. Chem., Univ. Texas, Austin, TX, 78712, USA
SOURCE: Journal of Dispersion Science and Technology (1983), 4(4), 361-70
CODEN: JDTEDS; ISSN: 0193-2691
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The reaction of BrCH2CH2SO3Na [4263-52-9] with Na alcoholates gave 5 surfactants ROCH2CH2SO3Na with R = octadecyl, oleyl, 2-oleyloxyethyl, 2-(2-oleyloxyethoxy)ethyl, and eicosyl, resp. The surfactants produced Winsor III systems (microemulsions) with suitable alkane oil phases and the appropriate salt and cosolvent concns.
IT **91362-47-9P 91362-48-0P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(preparation and surfactant properties of)
RN 91362-47-9 CAPLUS
CN Ethanesulfonic acid, 2-[2-(9-octadecenyloxy)ethoxy]-, sodium salt, (Z)-(9CI) (CA INDEX NAME)

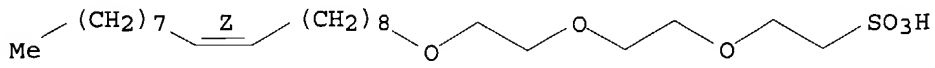
Double bond geometry as shown.



● Na

RN 91362-48-0 CAPLUS
CN Ethanesulfonic acid, 2-[2-[2-(9-octadecenyloxy)ethoxy]ethoxy]-, sodium salt, (Z)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



● Na

L36 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1967:432482 CAPLUS
DOCUMENT NUMBER: 67:32482
TITLE: β-Alkyl-β'-alkoxyisethionates
INVENTOR(S): Schenck, Leslie M.; Nunn, Leslie G., Jr.
PATENT ASSIGNEE(S): General Aniline and Film Corp.
SOURCE: Ger., 4 pp.
CODEN: GWXXAW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1234708		19670223		

PRIORITY APPLN. INFO.: US 19601122

GI For diagram(s), see printed CA Issue.

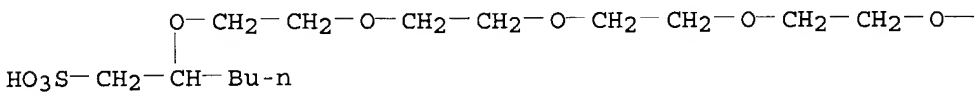
AB Title compds. R(OCHR2CH2)nOCHR1CH2SO3X (I) and II, are surface active agents and are prepared from R1CH:CHSO3X or HOCHR1CH2SO3X, and R(OCHR2CH2)nOH or III in NaOH or KOH at pH 9.7-11.7 and 140-220° for 2-6.5 hrs. At >180° the reaction is carried out in a stainless steel autoclave. Thus, C13H27OH 200, HOCHMeCH2SO3Na (IV) 162, and 50% aqueous NaOH 6 parts was heated 1 hr. at 170°, then 40 min. at 200°. The mixture was separated and cooled to give 20% Na β-(tridecyloxy)propanesulfonate (recrystd. from MeOH). Similarly, the following were prepared: Na β-(ethylhexyloxy)propanesulfonate, K β-ethoxypropanesulfonate, Na β-(docosyloxy)butanesulfonate, C18H37(OCH2CH2)10OCHBuCH2SO3Na, and Na β-(tridecyloxy)propanesulfonate. A mixture of 204 parts reaction mixture of 1 mole nonylphenol with 4 moles ethylene oxide, 81 parts IV, and 6 parts aqueous 50% NaOH was heated to 180° in 40 min. and maintained 2 hrs. at 180° to give 9% II (R1 = Me, R2, R3 and R4 = H, R5 = C9H19, X = Na, m = 4) which was isolated from unreacted alc. with a strong basic anionic ion exchange resin. Similarly, the following were prepared: EtOCH2CH2OCHMeCH2SO3Na, Na β-(nonylphenoxy)ethoxypentanesulfonate. Also prepared were the following II (R1, R2, R3, R4, R5, X, and m given): Me, Me, H, H, H, Na, 1; Me, Et, 2-Me, H, H, Na, 1; Me, H, 2-C9H19, 4-C9H19, H, Na, 20; Me, H, 2-Bu, 4-Bu, 6-Bu, Na, 10; Me, H, H, 4-C8H17, H, Na, 10; Me, H, 2-C12H25, 4-C12H25, 6-C12H25, Na, 10; Me, H, H, 4-C18H37, H, Na, 10.

IT **14817-51-7P**
RL: SPN (Synthetic preparation); **PREP (Preparation)**
(preparation of)

RN 14817-51-7 CAPLUS

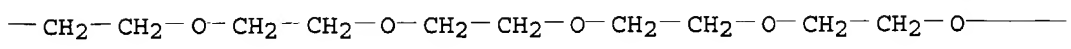
CN 3,6,9,12,15,18,21,24,27,30,33-Undecaoxahenpentacontane-1-sulfonic acid, 2-butyl-, sodium salt (8CI) (CA INDEX NAME)

PAGE 1-A



● Na

PAGE 1-B



PAGE 1-C

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L1             8 S BOROXINE
L2             0 S BIS AZINYL
L3             6 S AZINYL
L4        285790 S 1-6
L5                STRUCTURE UPLOADED
L6            14 S L5
L7           480 S L5 FULL
L8           279 S L7 NOT PMS/CI
L9             1 S ISETHIONIC ACID/CN
L10          229 S L8 NOT N/ELS
L11           46 S L10 AND 4/O
L12           41 S L11 NOT X/ELS
L13           43 S L11 NOT FE/ELS
L14           38 S L12 NOT FE/ELS
L15           36 S L14 NOT TOLYL ESTER
L16           30 S L15 NOT PHENYL ESTER
L17           27 S L16 NOT XYLYL ESTER

     FILE 'CAPLUS' ENTERED AT 08:26:52 ON 18 MAY 2004
L18            8 S L17/PREP

     FILE 'BEILSTEIN' ENTERED AT 08:32:55 ON 18 MAY 2004
L19           35 S L5 FULL
L20           23 S L19 NOT ESTER
L21           23 S L20 NOT PHENYL?
L22              STRUCTURE UPLOADED

     FILE 'REGISTRY' ENTERED AT 08:43:46 ON 18 MAY 2004
L23           14 S L22
L24          480 S L22 FULL
L25            0 S L7 NOT L24
L26          433 S L24 NOT X/ELS
L27          357 S L26 NOT ESTER
L28          202 S L27 NOT PMS/CI
L29              STRUCTURE UPLOADED
L30            3 S L29
L31           53 S L29 FULL
L32           36 S L31 NOT PMS/CI
L33           36 S L32 NOT X/ELS
L34           35 S L33 NOT ESTER
L35           33 S L34 NOT IMIDAZOL?

     FILE 'CAPLUS' ENTERED AT 08:48:11 ON 18 MAY 2004
L36            6 S L35/PREP

=> file beilstein
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    32.98    1119.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                    -4.16      -9.70

FILE 'BEILSTEIN' ENTERED AT 08:51:33 ON 18 MAY 2004
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FILE RELOADED ON OCTOBER 20, 2002
FILE LAST UPDATED ON MARCH 30,2004
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FILE COVERS 1771 TO 2003.
*** FILE CONTAINS 8,932,479 SUBSTANCES ***

>>> PLEASE NOTE: Reaction data and substance data are stored in separate documents and can not be searched together in one query.
Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a molecular formula or a structure search for example can be restricted to compounds with available reaction information by concatenation with PRE/FA, REA/FA or more general with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For more detailed reaction searches BRNs can be selected from substance answer sets and searched in the next step as reaction partner BRNs - Reactant (RX.RBRN) or Product BRN (RX.PBRN). After a search for reaction details substance documents associated with reactants or products may be retrieved by searching RX.PBRNs or RX.RBRNs as BRNs. <<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

****
* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST.   *
* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE   *
* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE   *
* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS.   *
* FOR PRICE INFORMATION SEE HELP COST   *
****

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>>> FOR SEARCHING PREPARATIONS SEE HELP PRE  <<<

**********************************************************************
* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST.                *
* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE   *
* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE          *
* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS.                        *
* FOR PRICE INFORMATION SEE HELP COST                                *
**********************************************************************

=> s l35
L37           0 L35

=> s l29 full
FULL SEARCH INITIATED 08:52:03 FILE 'BEILSTEIN'
FULL SCREEN SEARCH COMPLETED -    3248 TO ITERATE

100.0% PROCESSED     3248 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.14

L38            0 SEA SSS FUL L29

=>
```